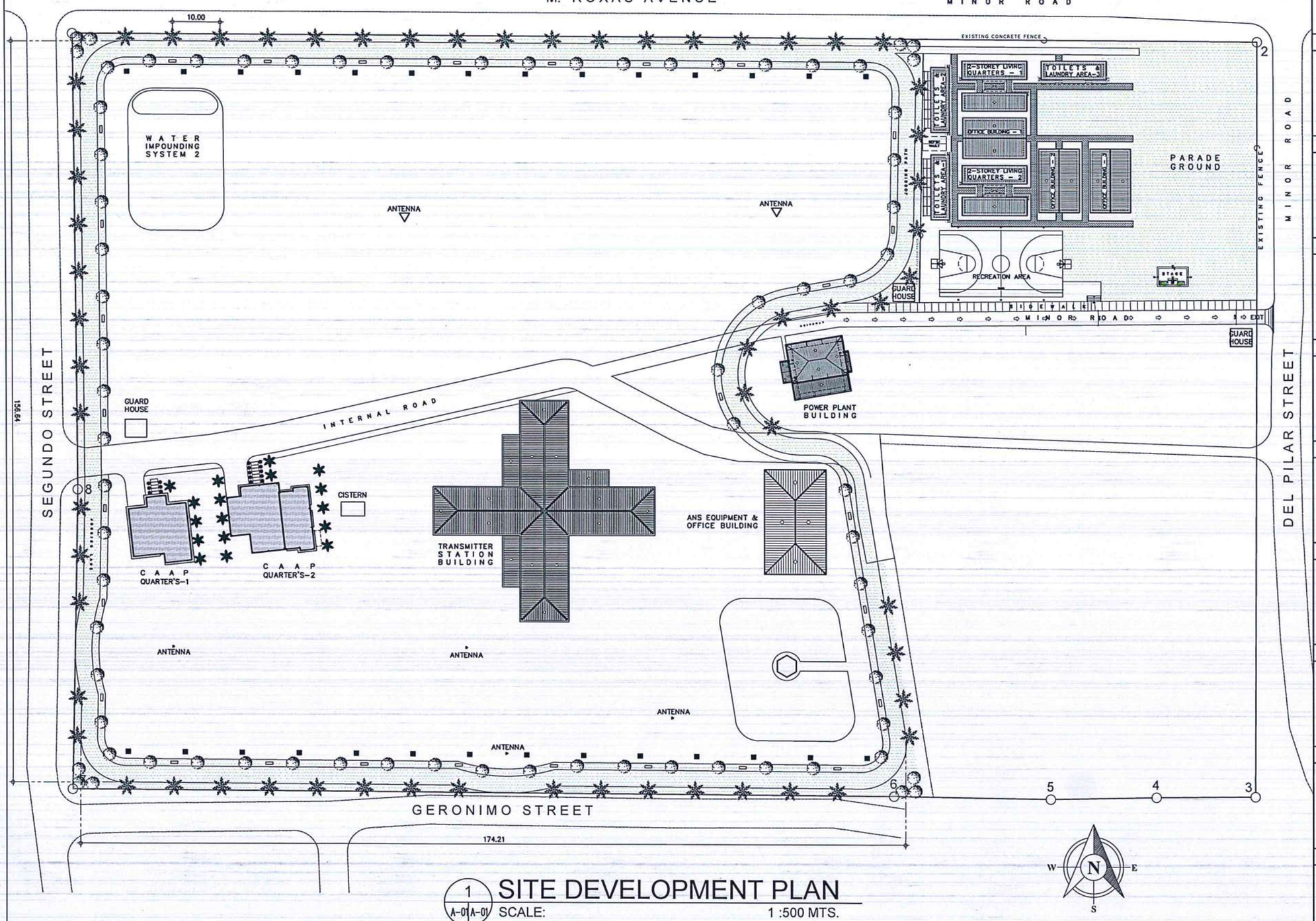

1 / A-01 | A-01

SITE DEVELOPMENT PLAN

SCALE: 1 :500 MTS.

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAY
DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS
OFFICE OF THE BUILDING OFFICIALS

DISTRICT / CITY / MUNICIPALITY

LAND USE AND ZONING

LINE AND GRADE

ARCHITECTURAL

CIVIL / STRUCTURAL

ELECTRICAL

MECHANICAL

SANITARY / PLUMBING

ELECTRONICS

GEODETIC ENGINEERS

BAGONG PILIPINAS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	RCJ
CHECKED BY:	SJD

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
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Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- SITE DEVELOPMENT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 01

TABLE OF CONTENTS

REHABILITATION OF MANILA TRANSMITTER FACILITIES

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

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LOCATION:

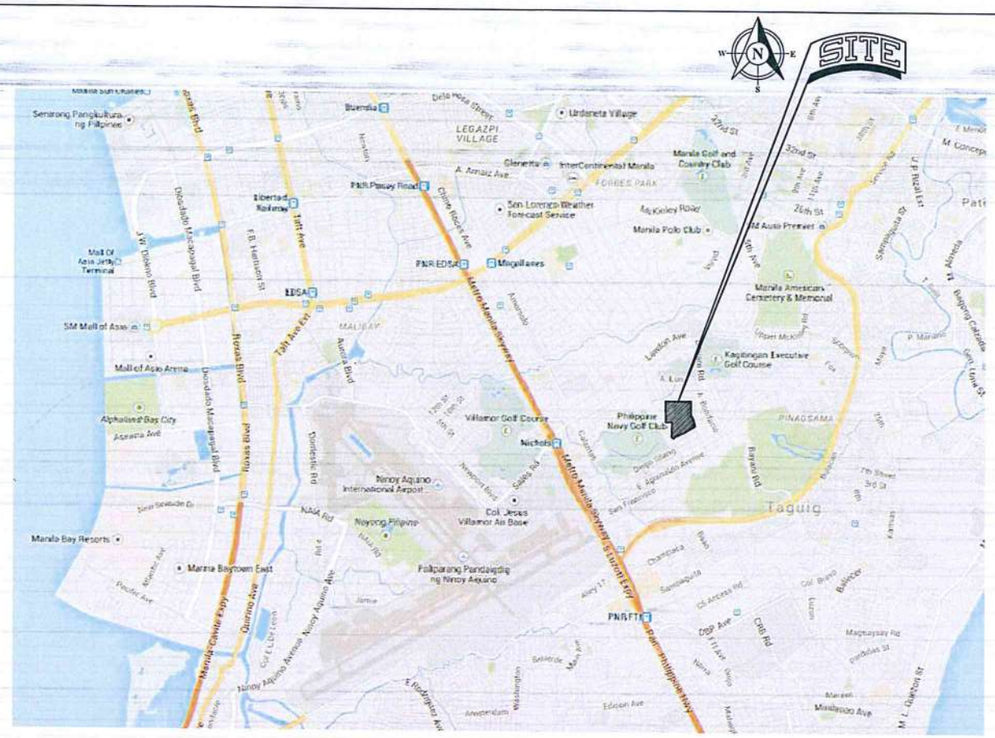
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

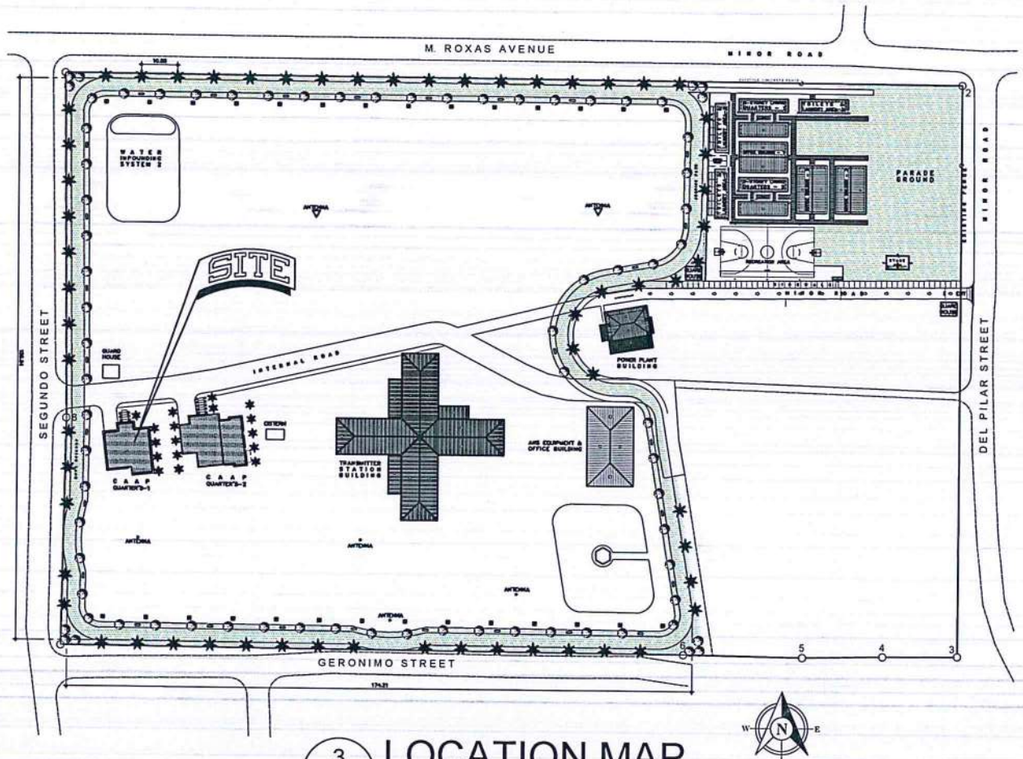
- TABLE OF CONTENTS

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 01A

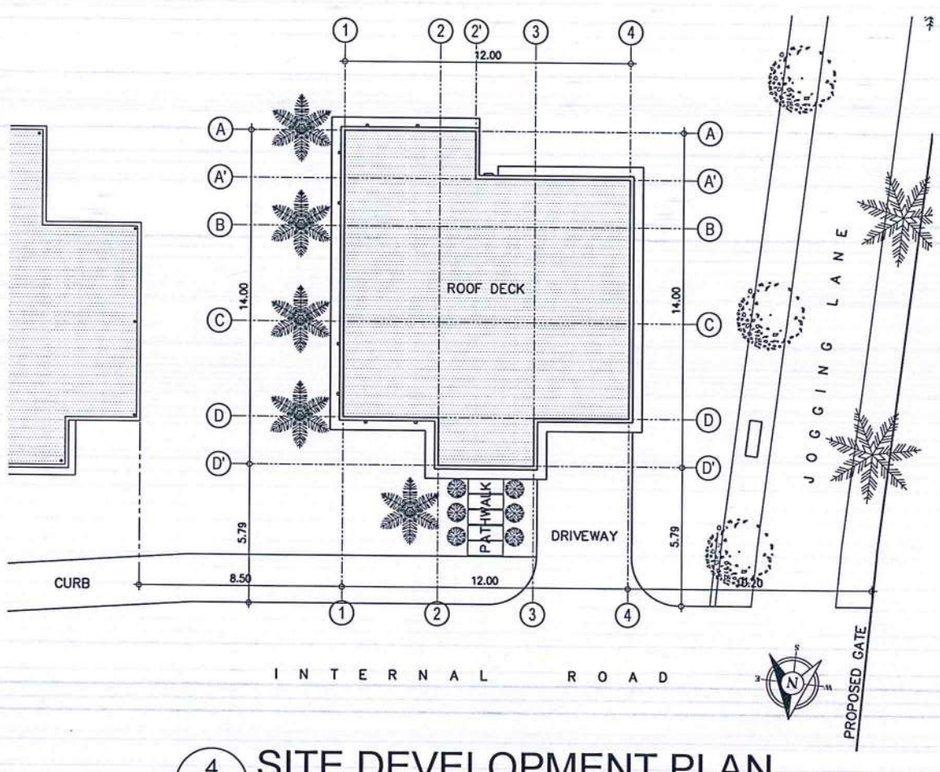
1 A-02A-02 **PERSPECTIVE**
SCALE: NTS



2 A-02A-02 **VICINITY MAP**
SCALE: NTS



3 A-02A-02 **LOCATION MAP**
SCALE: 1 : 1000 M



4 A-02A-02 **SITE DEVELOPMENT PLAN**
SCALE: 1 : 150 M

REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
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NAIA ROAD, 1300 PASAY CITY

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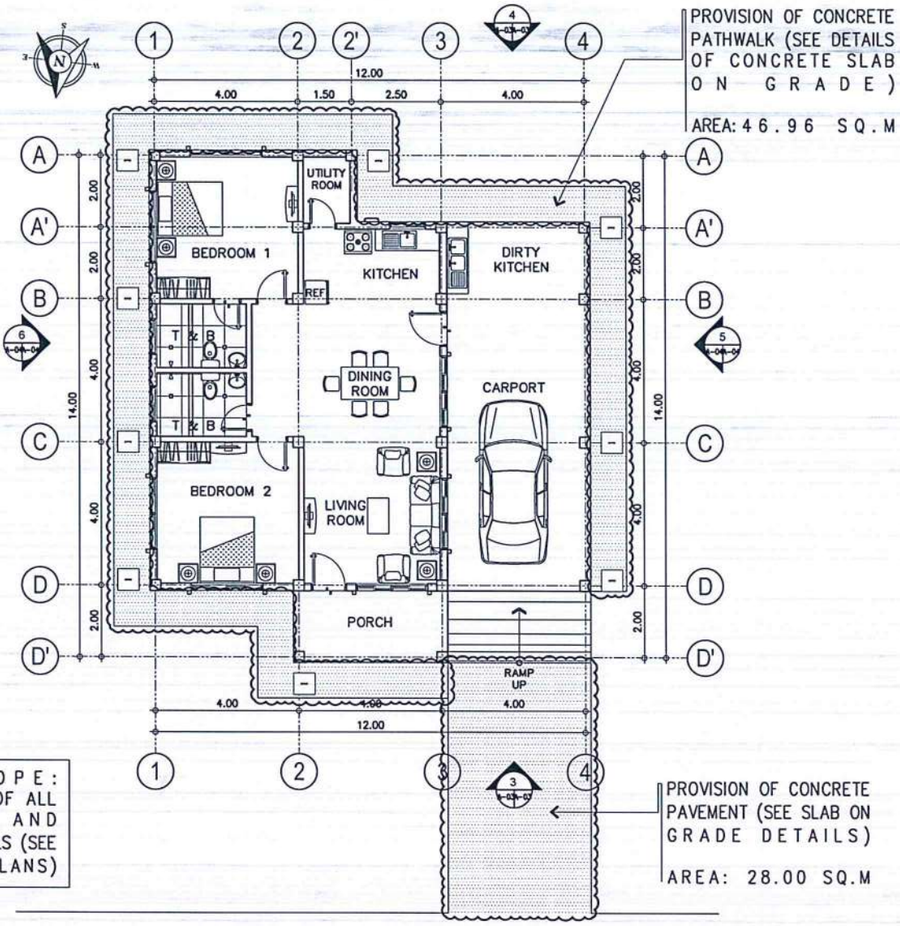
PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF CAAP QUARTERS - 1)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

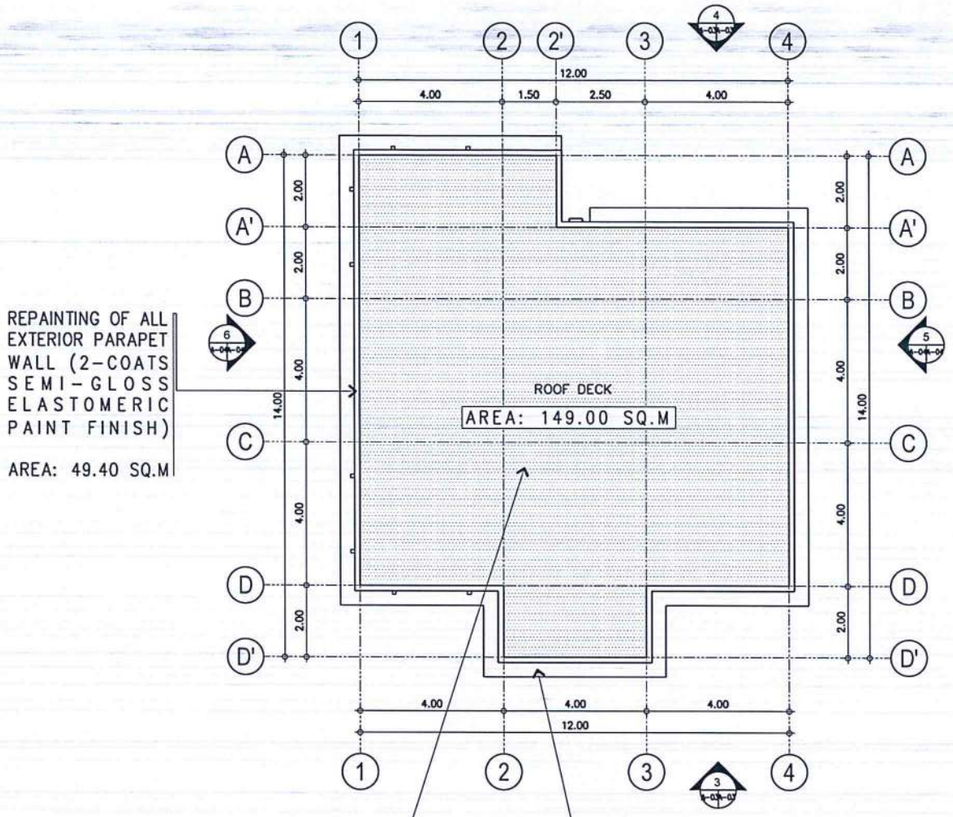
SHEET CONTENTS:
- EXTERIOR PERSPECTIVE
- VICINITY MAP
- LOCATION MAP
- SITE DEVELOPMENT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 02



OTHER SCOPE:
- REPAINTING OF ALL INTERIOR AND EXTERIOR WALLS (SEE DETAILED PLANS)

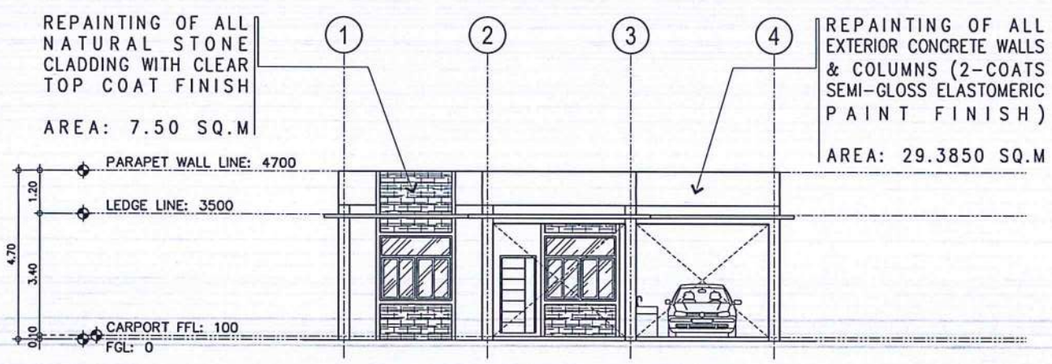
1 GROUND FLOOR EXISTING & DEMOLITION PLAN
SCALE: 1:100 MTS.



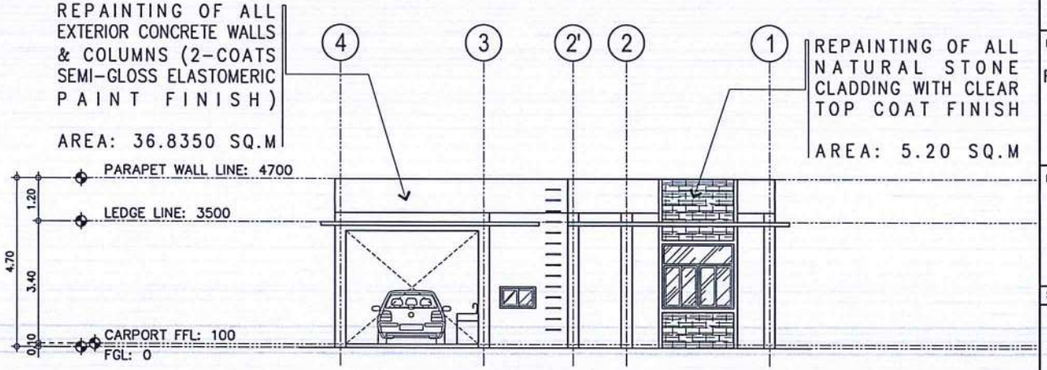
PROVISION OF LIQUID APPLIED WATER BASE WATERPROOFING MEMBRANE, 20KG (4 COATS) @ ROOF DECK & GUTTER
AREA: 149.00 SQ.M

REPAINTING OF ALL EXTERIOR CONCRETE LEDGES (2-COATS SEMI-GLOSS ELASTOMERIC PAINT FINISH)
AREA: 41.60 SQ.M

2 ROOF EXISTING & DEMOLITION PLAN
SCALE: 1:100 MTS.



3 FRONT ELEVATION
SCALE: 1:100 MTS.



4 REAR ELEVATION
SCALE: 1:100 MTS.

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

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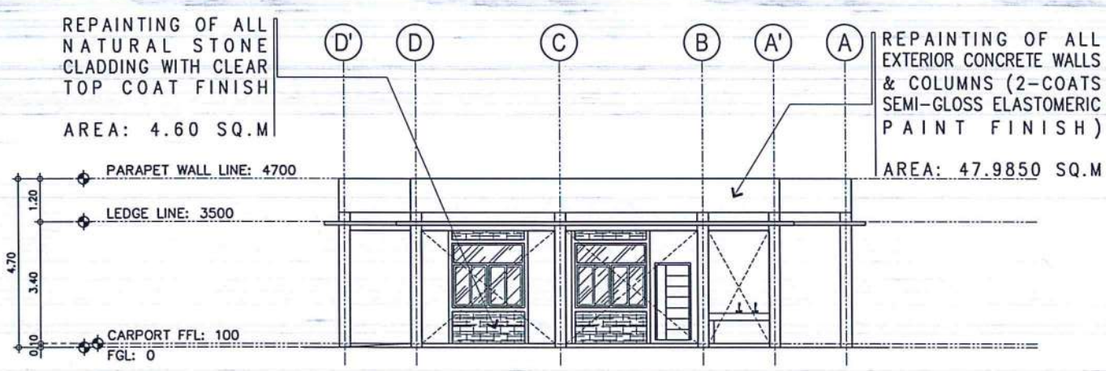
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF CAAP QUARTERS - 1)

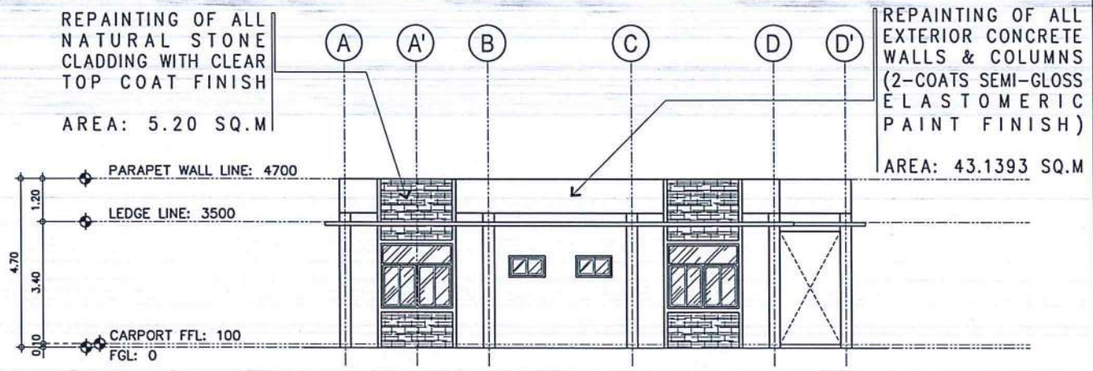
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- GROUND FLOOR & ROOF EXISTING & DEMOLITION PLAN
- FRONT & REAR ELEVATION

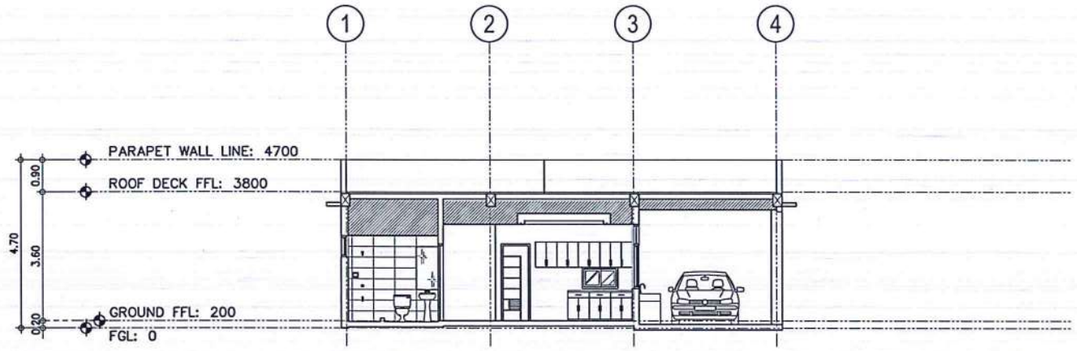
DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 03



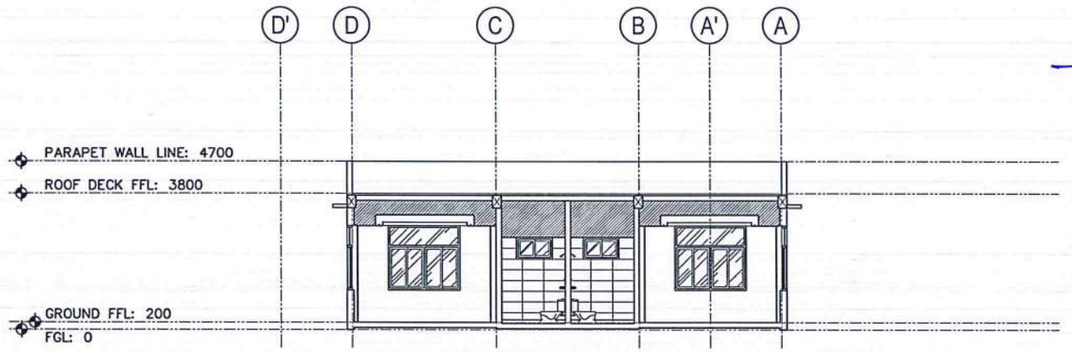
5 A-04/A-04 RIGHT-SIDE ELEVATION
SCALE: 1:100 MTS.



6 A-04/A-04 LEFT-SIDE ELEVATION
SCALE: 1:100 MTS.

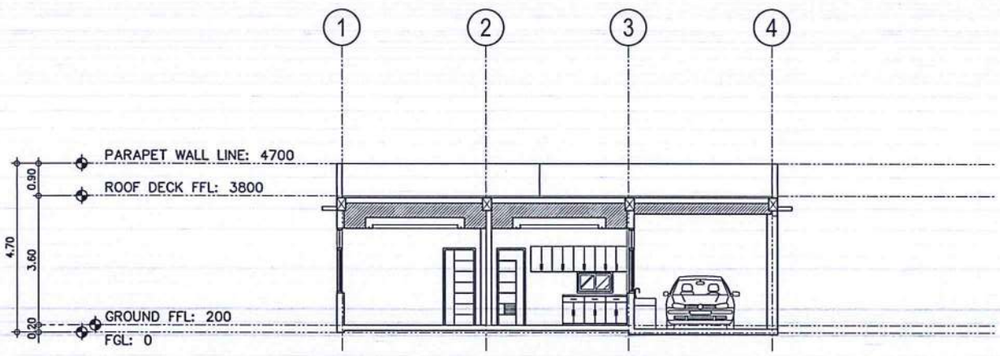


7 A-04/A-04 CROSS SECTION A
SCALE: 1:100 MTS.

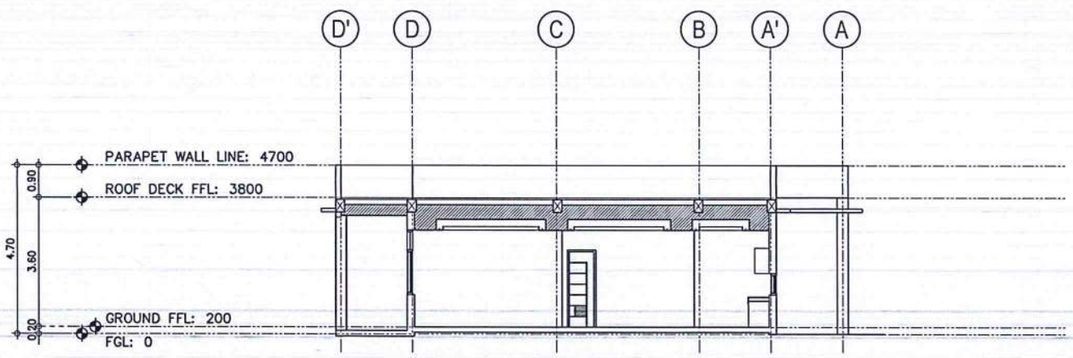


8 A-04/A-04 CROSS SECTION B
SCALE: 1:100 MTS.

OTHER SCOPE:
- REPAINTING OF ALL INTERIOR AND EXTERIOR WALLS, COLUMNS & CEILINGS (SEE DETAILED PLANS)



9 A-04/A-04 LONGITUDINAL SECTION A
SCALE: 1:100 MTS.



10 A-04/A-04 LONGITUDINAL SECTION B
SCALE: 1:100 MTS.

REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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Director General

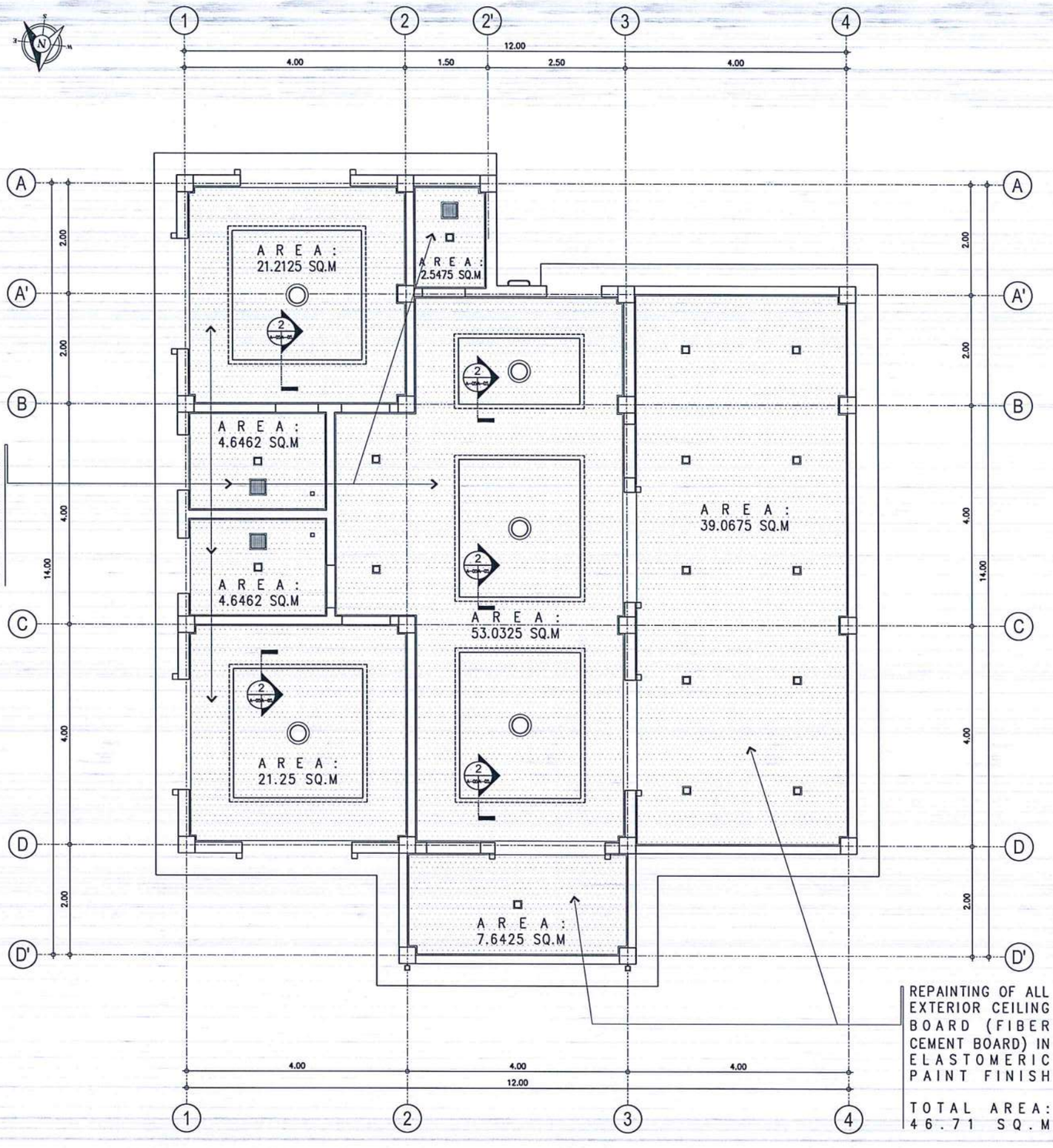
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF CAAP QUARTERS - 1)

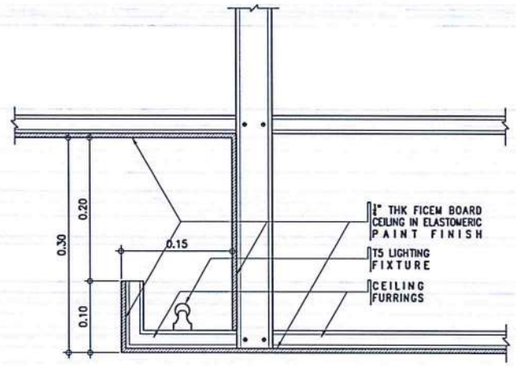
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- RIGHT & LEFT-SIDE ELEVATION
- CROSS SECTION - A & B
- LONGITUDINAL SECTION - A & B

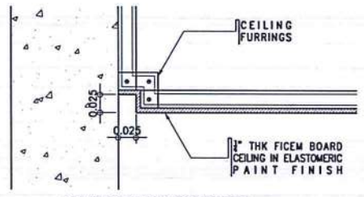
DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 04



1 A-05A-05 REFLECTED CEILING PLAN
SCALE: 1 : 50 M



2 A-05A-05 COVE LIGHTING SPOT DETAIL
SCALE: 1 : 5 M



3 A-05A-05 SHADOW MOLDING SPOT DETAIL
SCALE: 1 : 5 M

LEGEND

▫	3"x3" SQUARE RECESSED DOWNLIGHT WITH FROSTED GLASS COVER
▫	4"x4" SQUARE OUTDOOR LAMP WITH FROSTED GLASS COVER
▫	6"x6" SQUARE RECESSED DOWNLIGHT WITH FROSTED GLASS COVER
◎	ENCLOSED CIRCULAR LIGHTING FIXTURE
-----	CONCEALED T5 LIGHTING FIXTURE
▦	CEILING MOUNTED EXHAUST FAN
⊟	WALL MOUNTED FCU

TAG	CEILING FINISHES
CF-1	1/4" THK FICEM BOARD IN LATEX PAINT FINISH
CF-2	1/4" THK FICEM BOARD IN ELASTOMERIC PAINT FINISH
CF-3	POURED CONCRETE IN ELASTOMERIC PAINT FINISH

REPUBLIC OF THE PHILIPPINES

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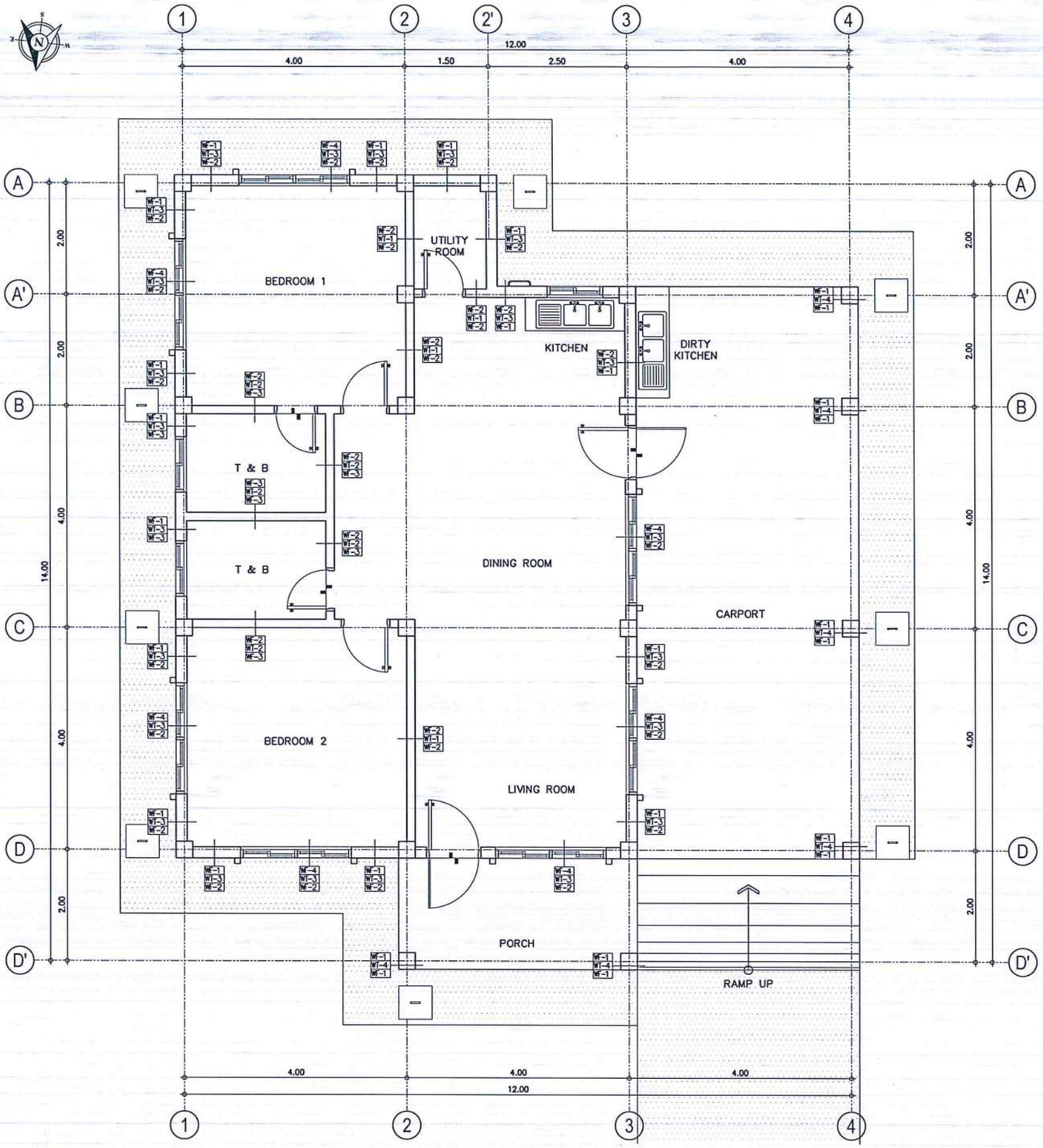
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- REFLECTED CEILING PLAN
- COVELIGHT & SHADOW MOLDING DETAILS
- LEGEND & CEILING FINISHES

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 05



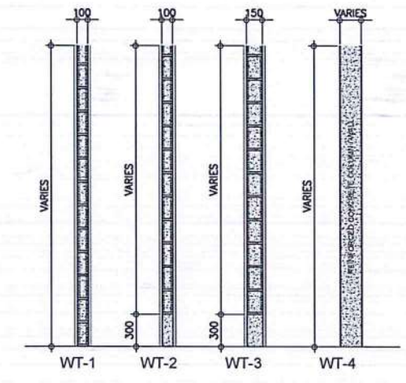
GROUND FLOOR
DETAILED PLAN
1 / A-06 A-06 SCALE: 1 : 50 M

LEGEND

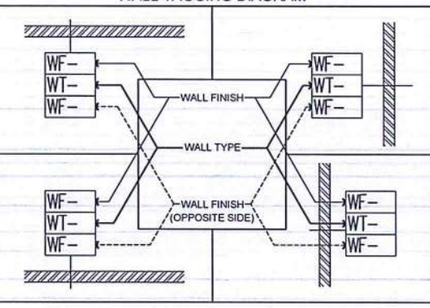
TAG	WALL FINISHES
WF-1	PLAIN CEMENT SMOOTH PLASTERED IN ELASTOMERIC PAINT FINISH
WF-2	PLAIN CEMENT SMOOTH PLASTERED IN LATEX PAINT FINISH
WF-3	300 X 600MM HOMOGENEOUS TILES POLISHED FINISH
WF-4	NATURAL STONE CLADDING WITH CLEAR TOP COAT FINISH

TAG	FLOOR FINISHES
FF-1	TORCH APPLIED WATERPROOFING MEMBRANE WITH 2" THK. STRAIGHT TO FINISH CONCRETE TOPPING WITH WIRE MESH

SCHEDULE OF WALL TYPES



WALL TAGGING DIAGRAM



REPUBLIC OF THE PHILIPPINES

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

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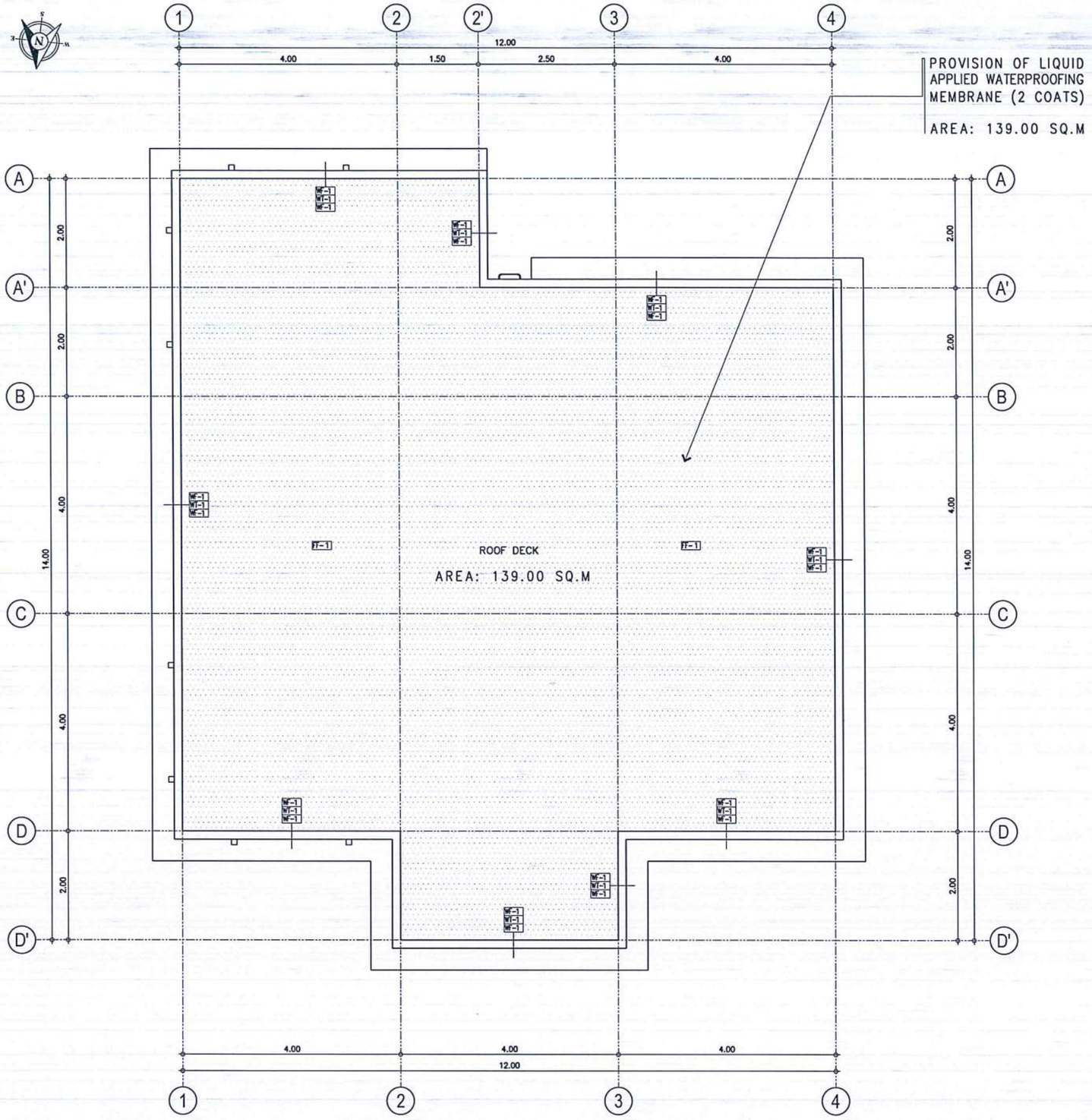
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- GROUND FLOOR DETAILED PLAN
- WALL & FLOOR FINISHES
- SCHEDULE OF WALL TYPES

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 06



ROOF DECK

1 / A-07 | A-07

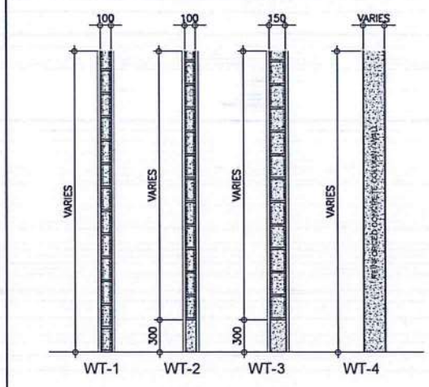
DETAILED PLAN

SCALE: 1 : 50 M

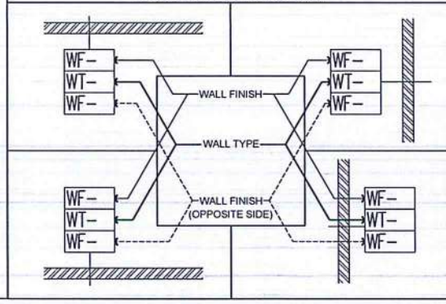
LEGEND

TAG	WALL FINISHES
WF-1	PLAIN CEMENT SMOOTH PLASTERED IN ELASTOMERIC PAINT FINISH
WF-2	PLAIN CEMENT SMOOTH PLASTERED IN LATEX PAINT FINISH
WF-3	300 X 600MM HOMOGENEOUS TILES POLISHED FINISH
WF-4	NATURAL STONE CLADDING WITH CLEAR TOP COAT FINISH
TAG	FLOOR FINISHES
FF-1	TORCH APPLIED WATERPROOFING MEMBRANE WITH 2" THK. STRAIGHT TO FINISH CONCRETE TOPPING WITH WIRE MESH

SCHEDULE OF WALL TYPES



WALL TAGGING DIAGRAM



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LOCATION:

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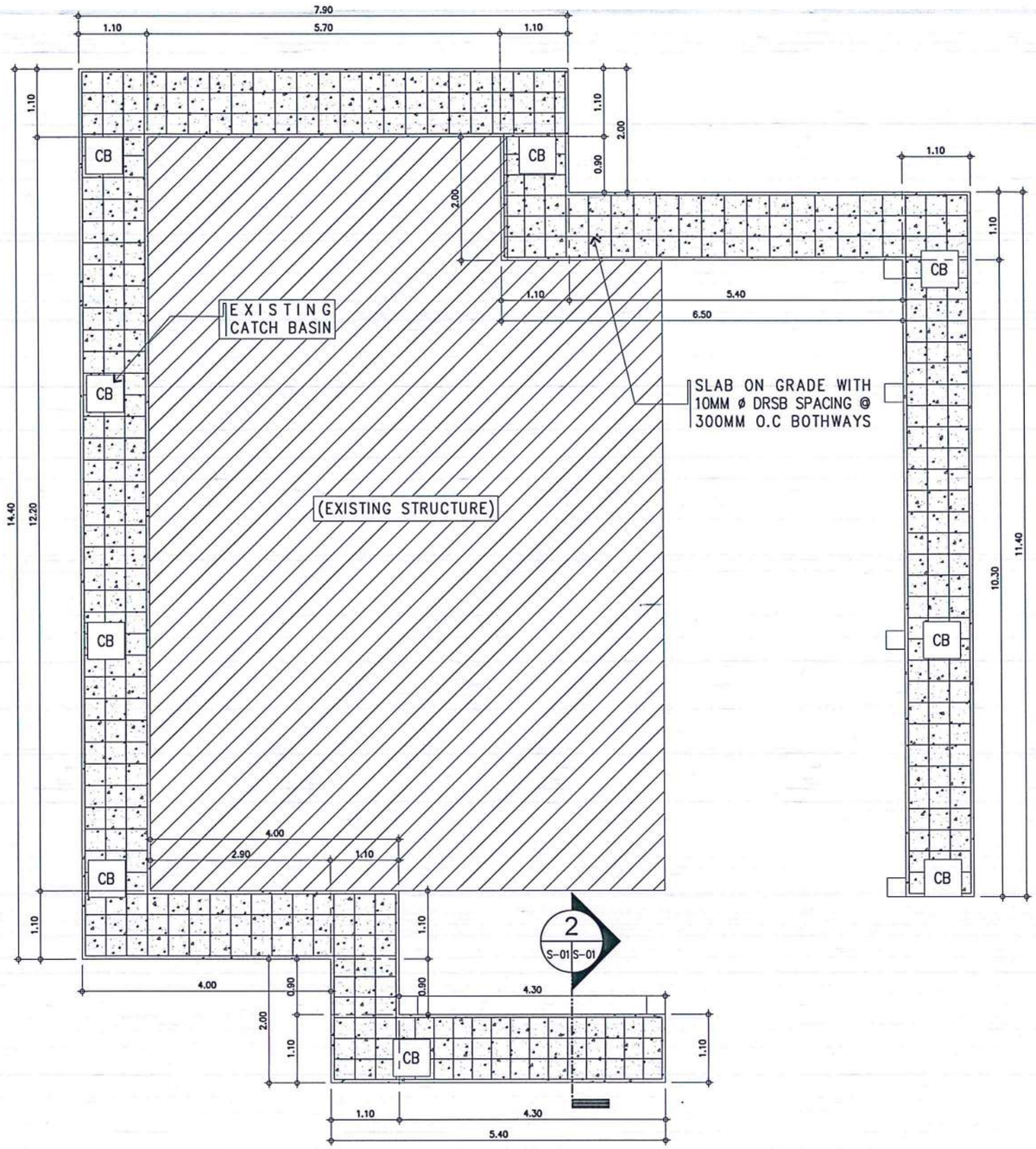
TAGUIG CITY

SHEET CONTENTS:

- ROOFDECK DETAILED PLAN
- WALL & FLOOR FINISHES
- SCHEDULE OF WALL TYPES

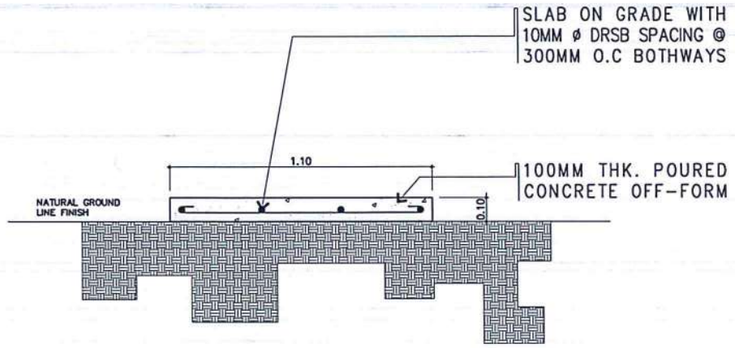
DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 07



CONCRETE SLAB ON GRADE @ PATHWALK

1 S-01 S-01 PLAN

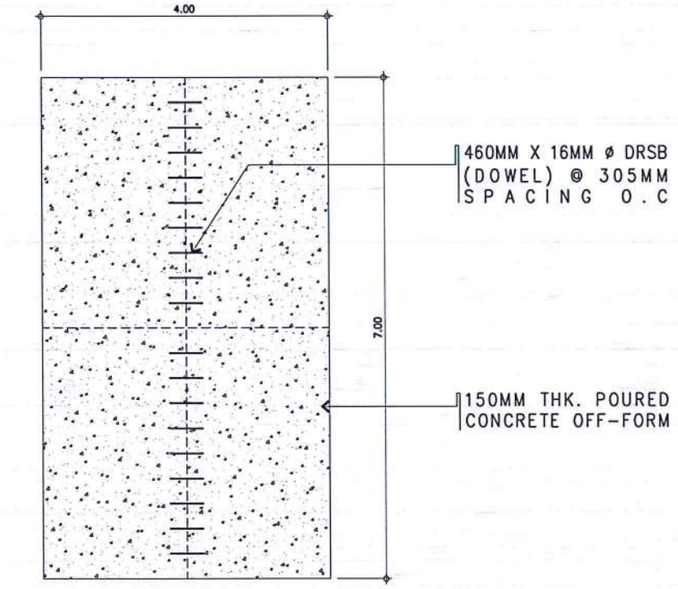
SCALE: 1:50 MTS.



CONCRETE SLAB ON GRADE @ PATHWALK

2 S-01 S-01 SECTION

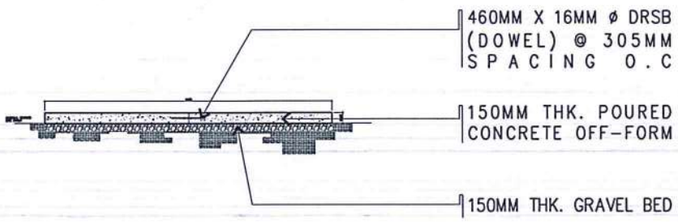
SCALE: 1:15 MTS.



CONCRETE SLAB ON GRADE @ DRIVEWAY

1 S-01 S-01 DETAILED PLAN

SCALE: 1:15 MTS.



REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	RCJ
CHECKED BY:	SJD

REVIEWED BY:

RAUL R. CRUCENA
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SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF CAAP QUARTERS - 1)

LOCATION:

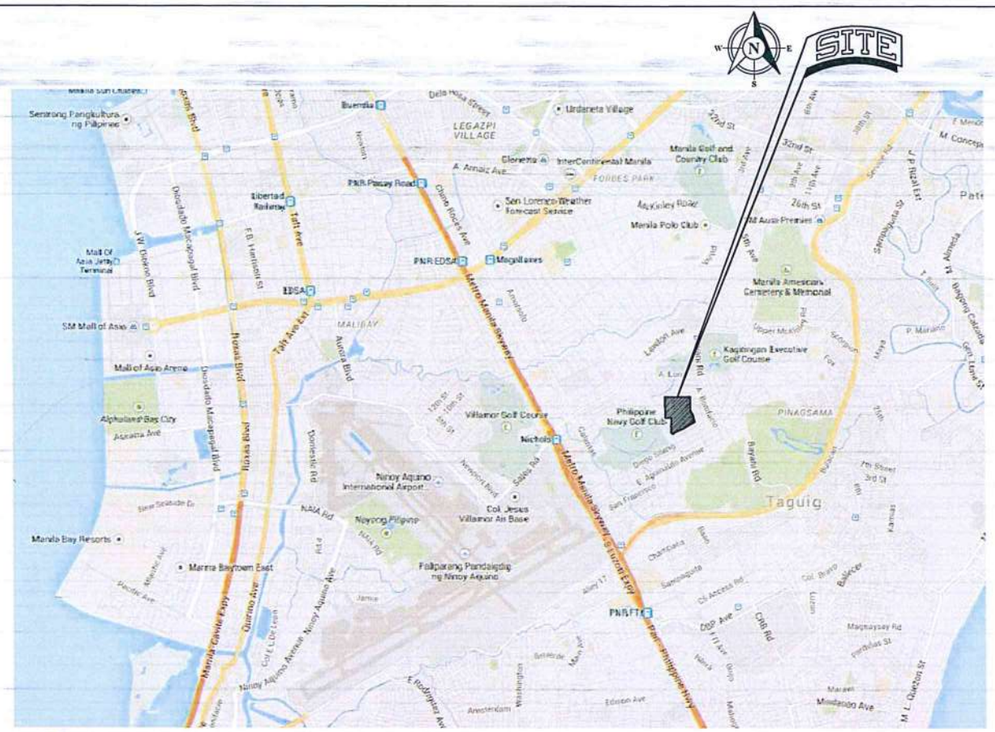
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

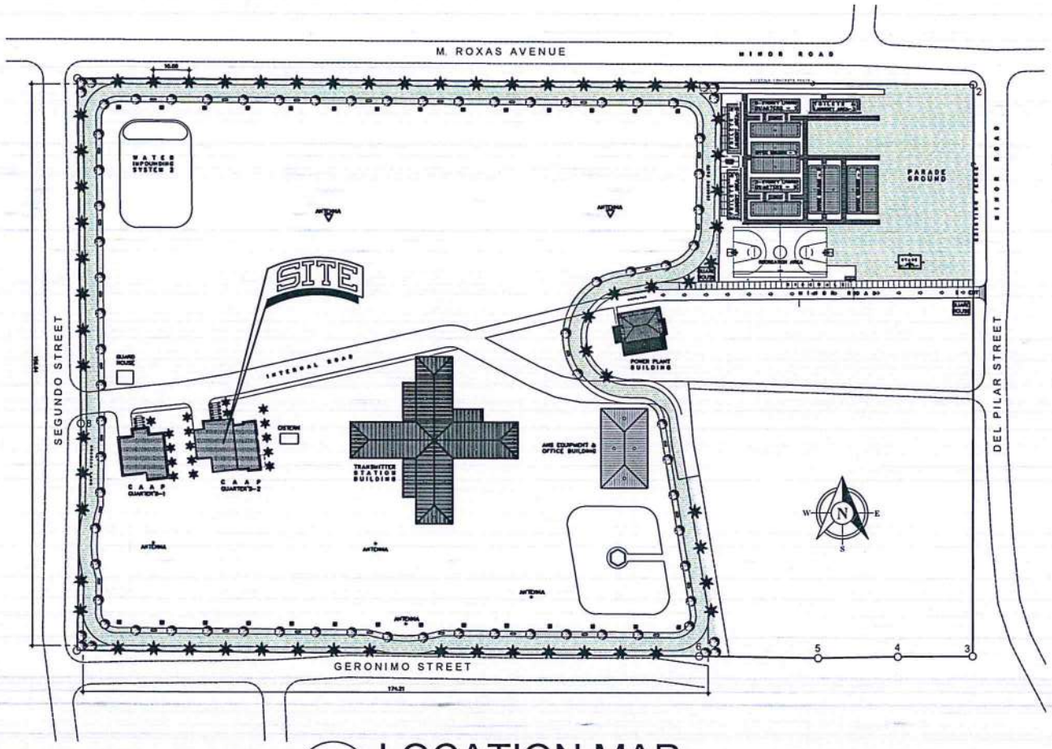
- SLAB ON GRADE CONCRETE DETAILS @ PATHWALK
- CONCRETE PAVEMENT DETAILS @ DRIVEWAY

DRAWING SCALE:	SHEET NO:
AS SHOWN	S - 01

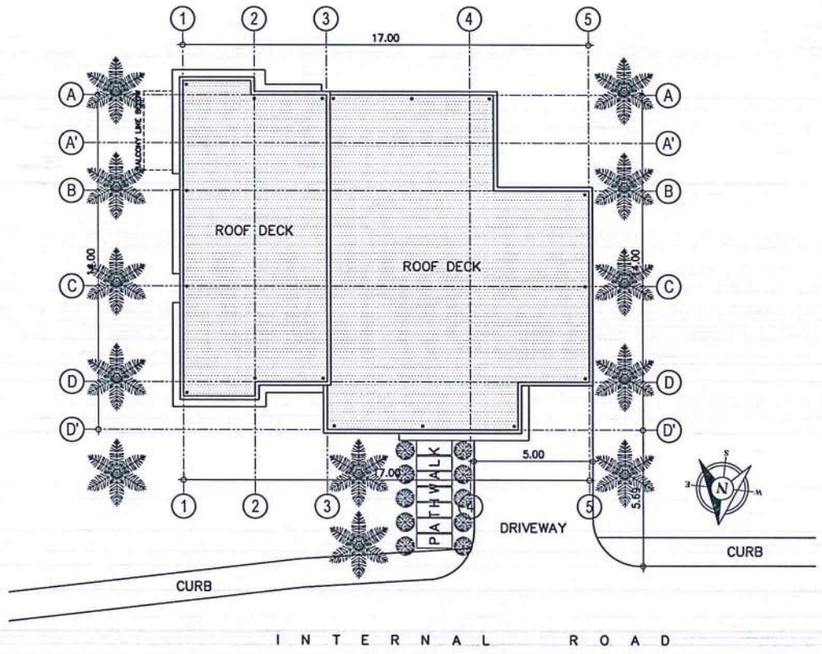
1 A-08A-08 **PERSPECTIVE**
SCALE: NTS



2 A-08A-08 **VICINITY MAP**
SCALE: NTS



3 A-08A-08 **LOCATION MAP**
SCALE: 1 : 1000 M



4 A-08A-08 **SITE DEVELOPMENT PLAN**
SCALE: 1 : 150 M

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PROJECT:
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(REHABILITATION OF CAAP QUARTERS - 2)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- EXTERIOR PERSPECTIVE
- VICINITY MAP
- LOCATION MAP
- SITE DEVELOPMENT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 08

PROVISION OF 600MM X 600MM HOMOGENEOUS FLOOR TILES (POLISHED FINISH)

AREA: 23.48 SQ.M

PROVISION OF 600MM X 600MM HOMOGENEOUS WALL TILES (POLISHED FINISH) MATCH ON EXISTING

REPLACEMENT OF DOOR KNOBS (CHROME LEVER TYPE LOCKSET)

PROVISION OF 600MM X 600MM HOMOGENEOUS FLOOR TILES (POLISHED FINISH)

AREA: 13.6975 SQ.M

PROVISION OF 600MM X 600MM HOMOGENEOUS FLOOR TILES (POLISHED FINISH)

AREA: 11.4375 SQ.M

REPLACEMENT OF DOOR KNOBS (CHROME LEVER TYPE LOCKSET)

CONTINUATION OF KITCHEN & DIRTY KITCHEN (SEE DETAILS)

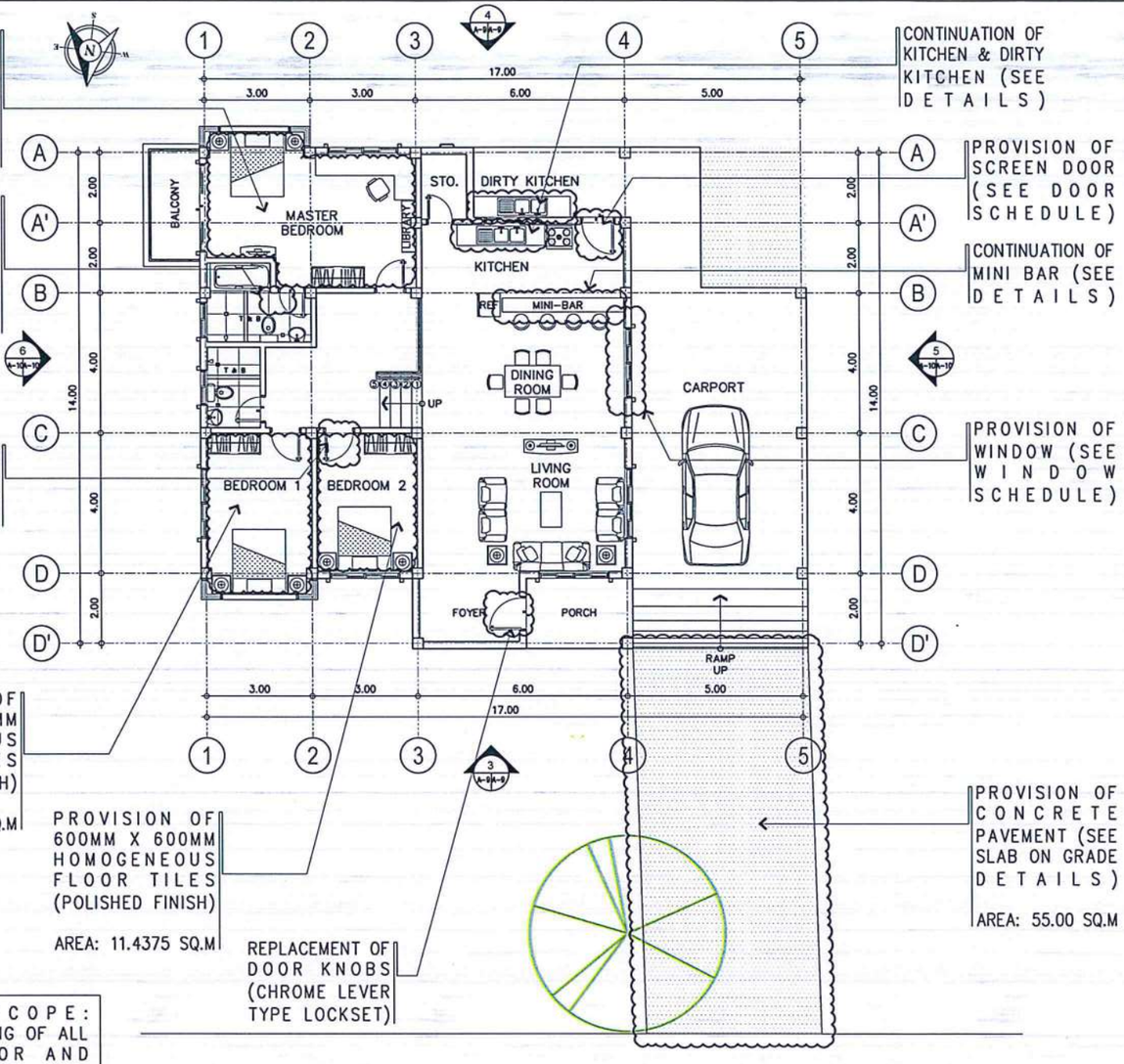
PROVISION OF SCREEN DOOR (SEE DOOR SCHEDULE)

CONTINUATION OF MINI BAR (SEE DETAILS)

PROVISION OF WINDOW (SEE WINDOW SCHEDULE)

PROVISION OF CONCRETE PAVEMENT (SEE SLAB ON GRADE DETAILS)

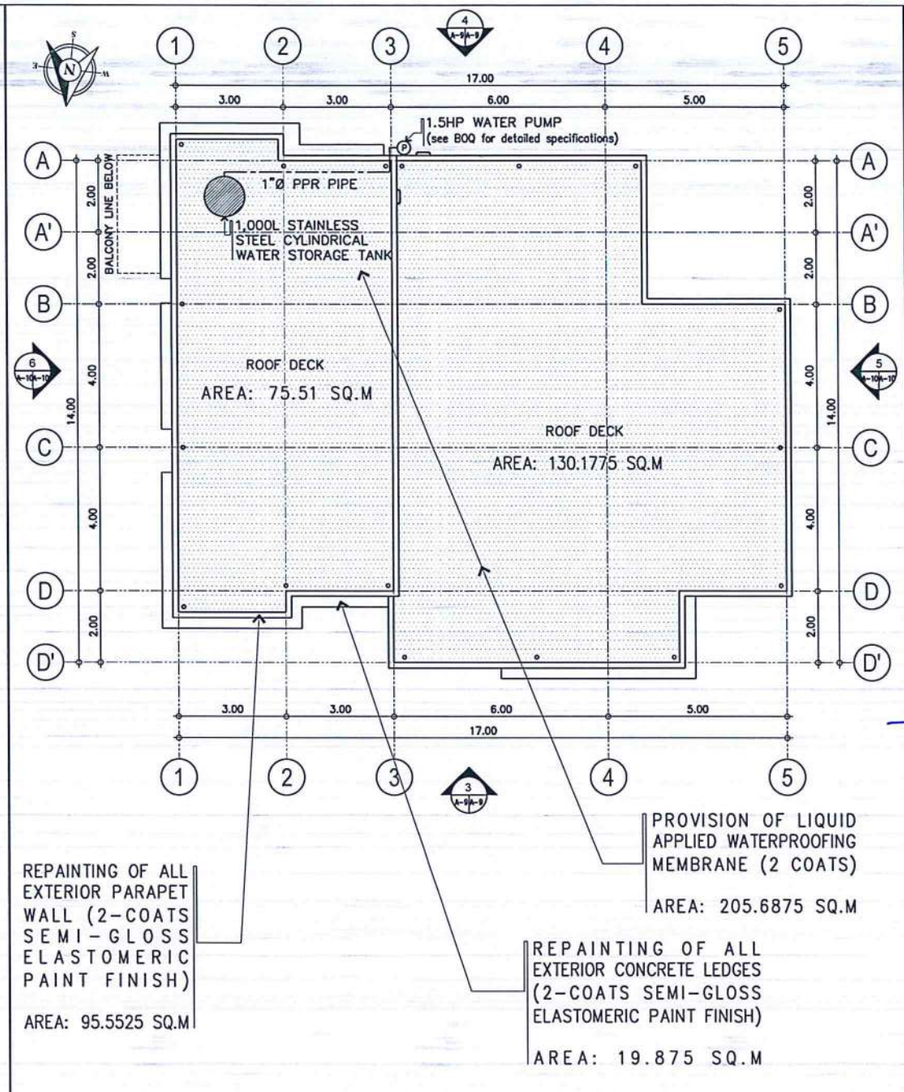
AREA: 55.00 SQ.M



OTHER SCOPE:
- REPAINTING OF ALL INTERIOR AND EXTERIOR WALLS (SEE DETAILED PLANS)

1 A-09/A-09 GROUND FLOOR EXISTING & DEMOLITION PLAN

SCALE: 1:100 MTS.



REPAINTING OF ALL EXTERIOR PARAPET WALL (2-COATS SEMI-GLOSS ELASTOMERIC PAINT FINISH)

AREA: 95.5525 SQ.M

PROVISION OF LIQUID APPLIED WATERPROOFING MEMBRANE (2 COATS)

AREA: 205.6875 SQ.M

REPAINTING OF ALL EXTERIOR CONCRETE LEDGES (2-COATS SEMI-GLOSS ELASTOMERIC PAINT FINISH)

AREA: 19.875 SQ.M

2 A-09/A-09 ROOF EXISTING & DEMOLITION PLAN

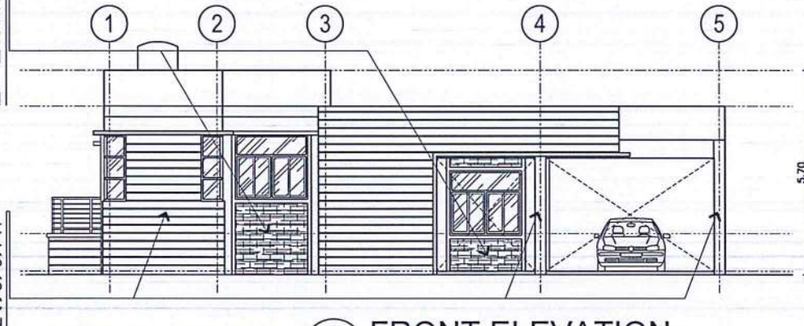
SCALE: 1:100 MTS.

REPAINTING OF ALL NATURAL STONE CLADDING WITH CLEAR TOP COAT FINISH

AREA: 6.30 SQ.M

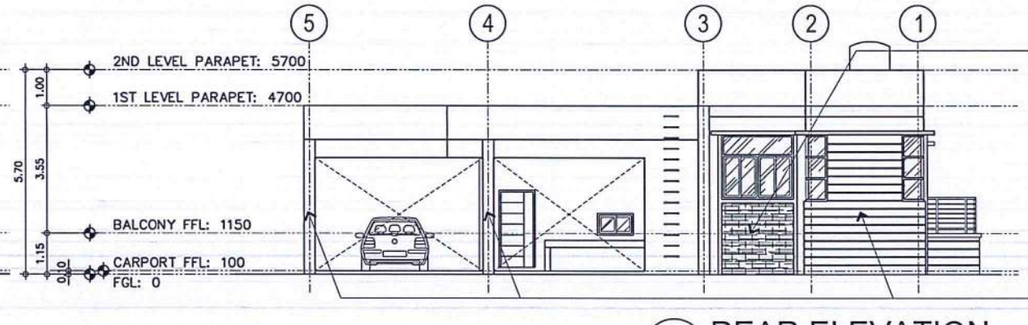
REPAINTING OF ALL EXTERIOR CONCRETE WALLS & COLUMNS (2-COATS) SEMI-GLOSS ELASTOMERIC PAINT FINISH

AREA: 59.5125 SQ.M



3 A-09/A-09 FRONT ELEVATION

SCALE: 1:100 MTS.



REPAINTING OF ALL NATURAL STONE CLADDING WITH CLEAR TOP COAT FINISH

AREA: 4.00 SQ.M

REPAINTING OF ALL EXTERIOR CONCRETE WALLS & COLUMNS (2-COATS) SEMI-GLOSS ELASTOMERIC PAINT FINISH

AREA: 62.6625 SQ.M

4 A-09/A-09 REAR ELEVATION

SCALE: 1:100 MTS.

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REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF CAAP QUARTERS - 2)

LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- GROUND FLOOR & ROOF EXISTING & DEMOLITION PLAN
- FRONT & REAR ELEVATION

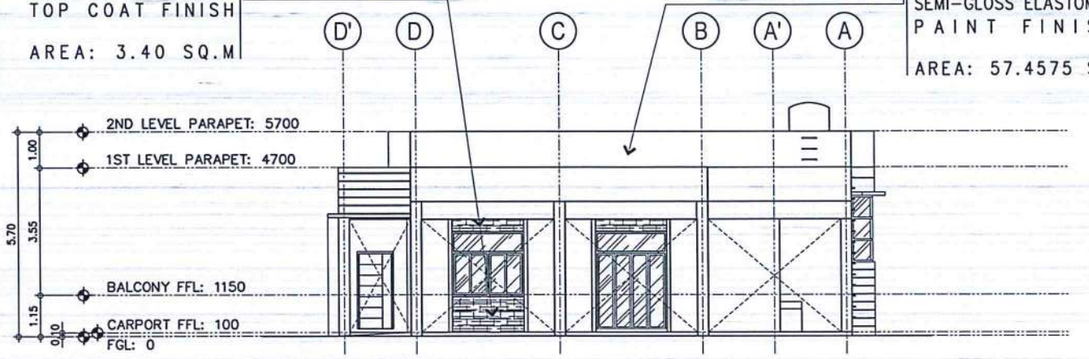
DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 09

REPAINTING OF ALL NATURAL STONE CLADDING WITH CLEAR TOP COAT FINISH

AREA: 3.40 SQ.M

REPAINTING OF ALL EXTERIOR CONCRETE WALLS & COLUMNS (2-COATS SEMI-GLOSS ELASTOMERIC PAINT FINISH)

AREA: 57.4575 SQ.M



5 A-10/A-10 RIGHT-SIDE ELEVATION

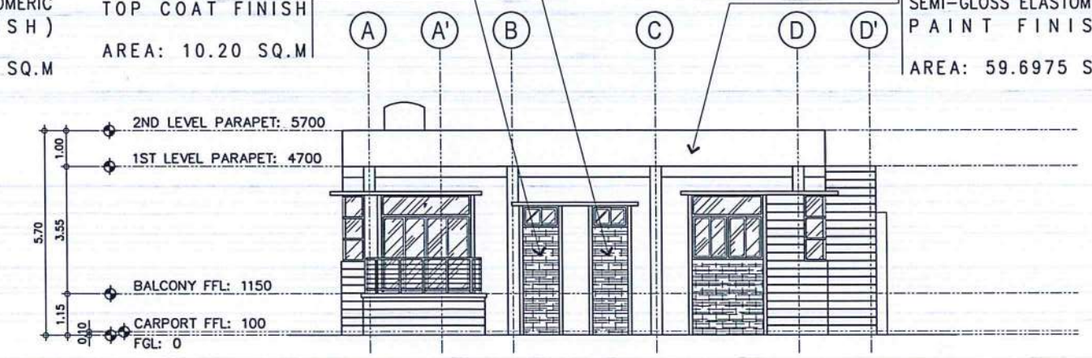
SCALE: 1:100 MTS.

REPAINTING OF ALL NATURAL STONE CLADDING WITH CLEAR TOP COAT FINISH

AREA: 10.20 SQ.M

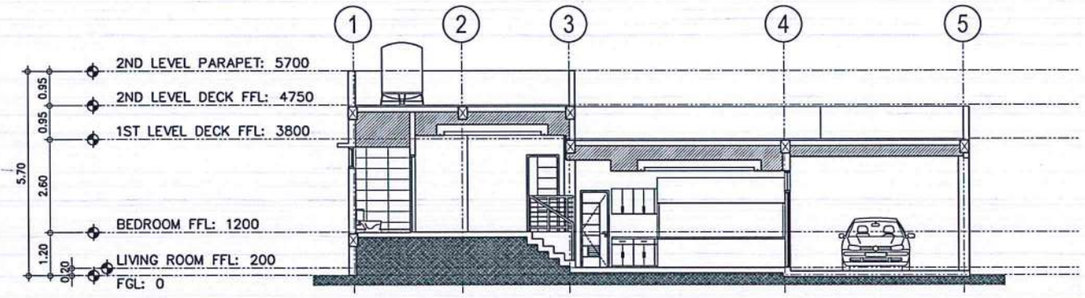
REPAINTING OF ALL EXTERIOR CONCRETE WALLS & COLUMNS (2-COATS SEMI-GLOSS ELASTOMERIC PAINT FINISH)

AREA: 59.6975 SQ.M



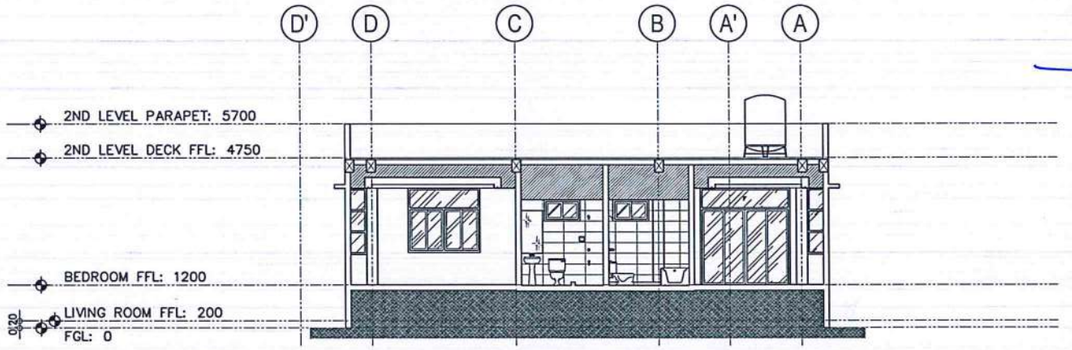
6 A-10/A-10 LEFT-SIDE ELEVATION

SCALE: 1:100 MTS.



A A-10/A-10 CROSS SECTION A

SCALE: 1:100 MTS.

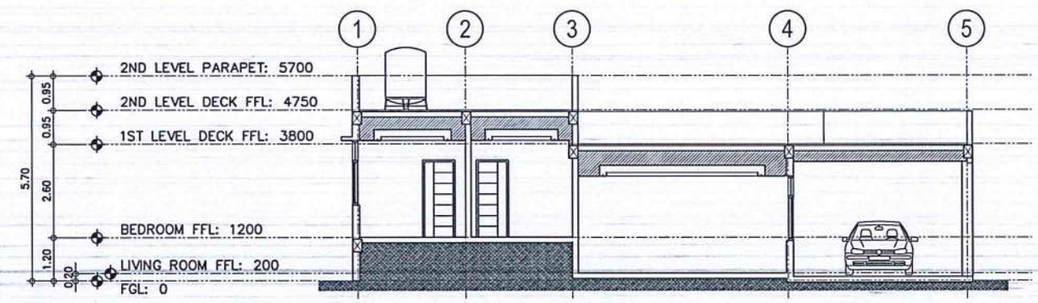


B A-10/A-10 CROSS SECTION B

SCALE: 1:100 MTS.

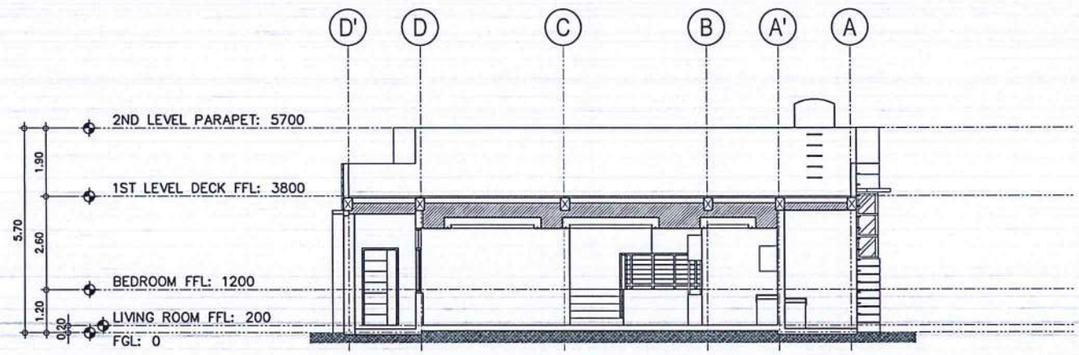
OTHER SCOPE:

- REPAINTING OF ALL INTERIOR AND EXTERIOR WALLS, COLUMNS & CEILINGS (SEE DETAILED PLANS)



C A-10/A-10 LONGITUDINAL SECTION A

SCALE: 1:100 MTS.



D A-10/A-10 LONGITUDINAL SECTION B

SCALE: 1:100 MTS.

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF CAAP QUARTERS - 2)

LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

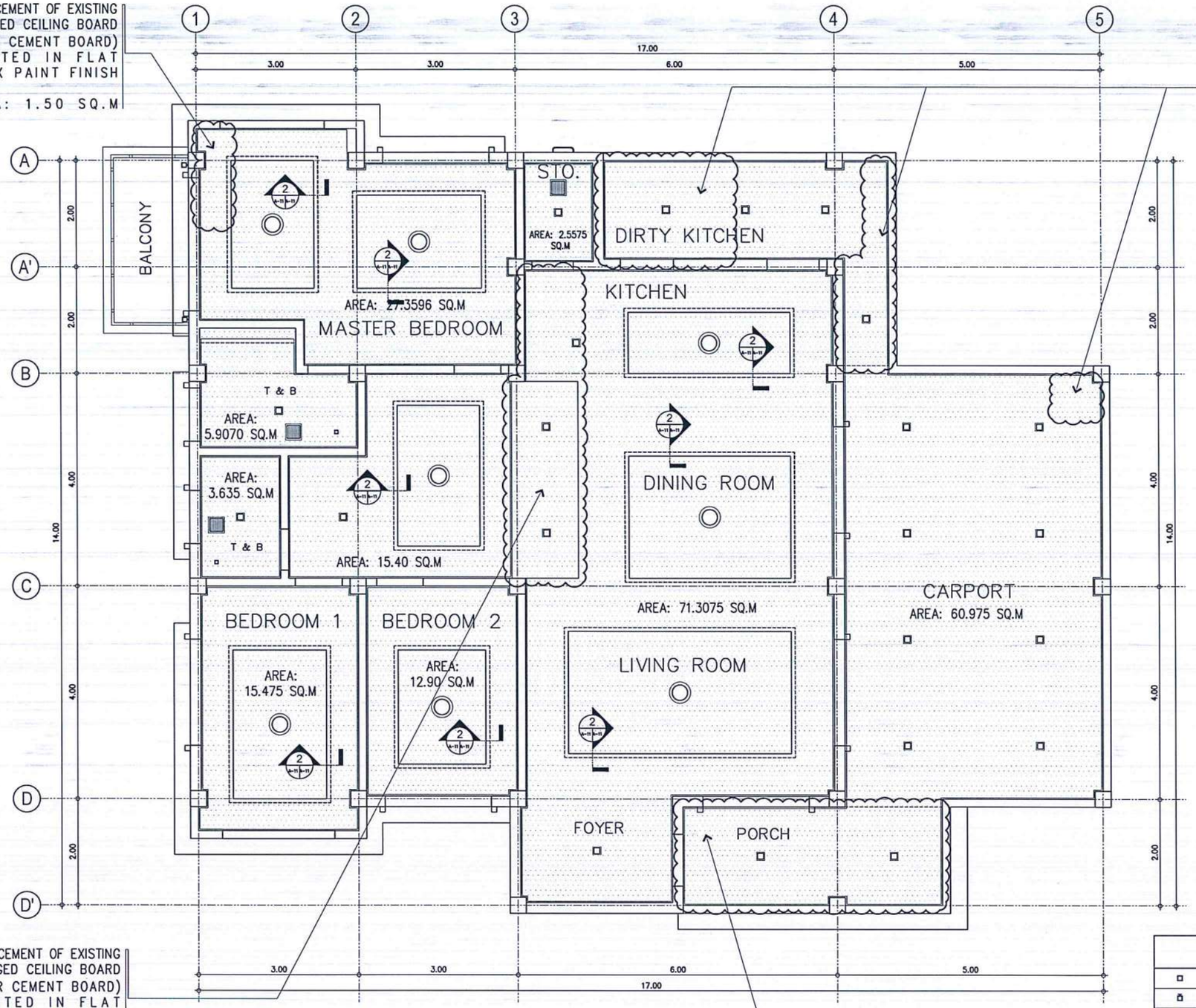
SHEET CONTENTS:

- RIGHT & LEFT-SIDE ELEVATION
- CROSS SECTION - A & B
- LONGITUDINAL SECTION - A & B

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 10

REPLACEMENT OF EXISTING DAMAGED CEILING BOARD (FIBER CEMENT BOARD) PAINTED IN FLAT LATEX PAINT FINISH

AREA: 1.50 SQ.M



REPLACEMENT OF EXISTING DAMAGED CEILING BOARD (FIBER CEMENT BOARD) PAINTED IN ELASTOMERIC PAINT FINISH

AREA: 10.00 SQ.M

REPLACEMENT OF EXISTING DAMAGED CEILING BOARD (FIBER CEMENT BOARD) PAINTED IN FLAT LATEX PAINT FINISH

AREA: 8.00 SQ.M

REPLACEMENT OF EXISTING DAMAGED CEILING BOARD (FIBER CEMENT BOARD) PAINTED IN ELASTOMERIC PAINT FINISH

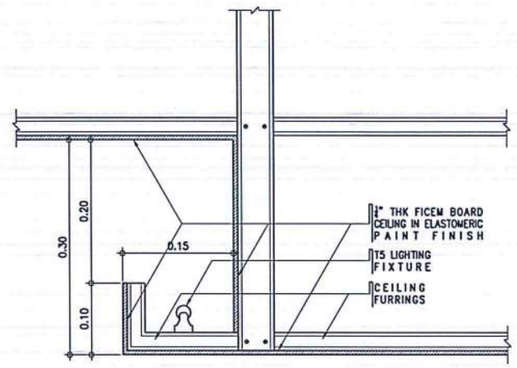
AREA: 9.00 SQ.M

1 A-11 A-11 REFLECTED CEILING PLAN
SCALE: 1 : 50 M

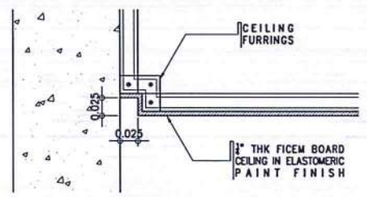
OTHER SCOPE OF WORK:

REPAINTING OF ALL INTERIOR & EXTERIOR CEILING BOARD (FIBER CEMENT BOARD) IN FLAT LATEX & ELASTOMERIC PAINT FINISH

TOTAL AREA: 215.5166 SQ.M



2 A-11 A-11 COVE LIGHTING SPOT DETAIL
SCALE: 1 : 5 M



3 A-11 A-11 SHADOW MOLDING SPOT DETAIL
SCALE: 1 : 5 M

LEGEND

▫	3"x3" SQUARE RECESSED DOWNLIGHT WITH FROSTED GLASS COVER
▫	4"x4" SQUARE OUTDOOR LAMP WITH FROSTED GLASS COVER
▫	6"x6" SQUARE RECESSED DOWNLIGHT WITH FROSTED GLASS COVER
◎	ENCLOSED CIRCULAR LIGHTING FIXTURE
-----	CONCEALED T5 LIGHTING FIXTURE
▤	CEILING MOUNTED EXHAUST FAN
	WALL MOUNTED FCU

TAG	CEILING FINISHES
CF-1	1/4" THK FICEM BOARD IN LATEX PAINT FINISH
CF-2	1/4" THK FICEM BOARD IN ELASTOMERIC PAINT FINISH
CF-3	POURED CONCRETE IN ELASTOMERIC PAINT FINISH

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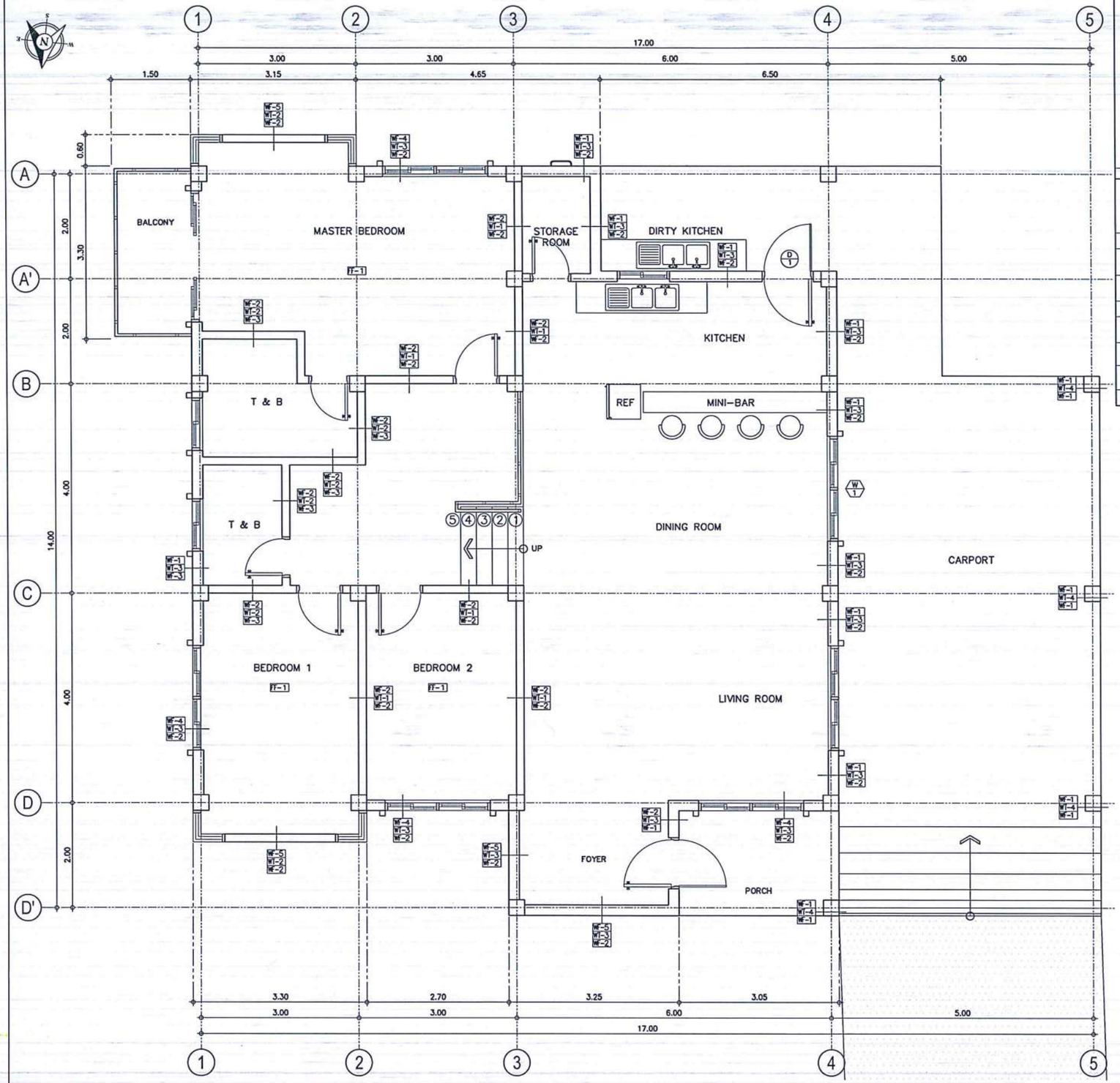
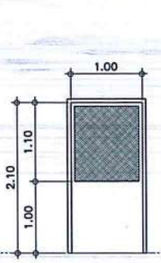
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

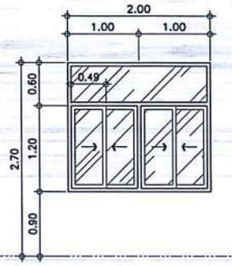
SHEET CONTENTS:
- REFLECTED CEILING PLAN
- COVE LIGHT & SHADOW MOLDING SPOT DETAILS
- LEGEND & CEILING FINISHES

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 11



GROUND FLOOR PLAN
DETAILED PLAN
1 / A-12 | A-12 SCALE: 1 : 50 M



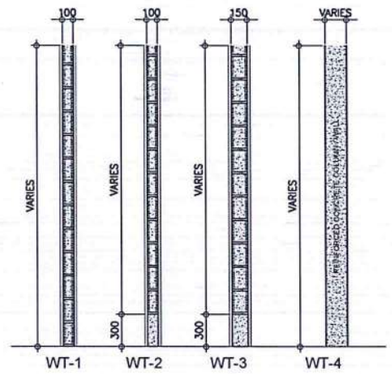


D / 1	SINGLE SWING ALUMINUM SCREEN DOOR	W / 1	6MM THK. TEMPERED CLEAR GLASS SLIDING WINDOW ON POWDER COATED ALUMINUM FRAME WITH 6MM THK FIXED TRANSOM WINDOW (COLOR OF GLASS & FRAME: VERIFY ARCHITECT)
DIMENSIONS:	1000MM x 2100MM (EXCLUDING DOOR JAMB)	DIMENSIONS:	2000MM x 1800MM
HARDWARES:	BUTT HINGES; ALUMINUM DOOR HANDLE & DOOR CLOSER	HARDWARES:	LOCKSET; METALLIC MOSQUITO SCREEN ON SLIDING POWDER COATED ALUMINUM FRAME
LOCATION:	PORCH; KITCHEN	LOCATION:	LIVING ROOM; MASTER BEDROOM; BEDROOMS 1 & 2
NO. OF SETS:	1 SET	NO. OF SETS:	1 SETS
J	50MM X 150MM TANGUILE KD WOOD FRAME	J	50MM X 150MM POWDER COATED ALUMINUM FRAME
H	50MM X 150MM TANGUILE KD WOOD FRAME	H	50MM X 150MM POWDER COATED ALUMINUM FRAME
M		M	50MM X 150MM POWDER COATED ALUMINUM FRAME
T		T	

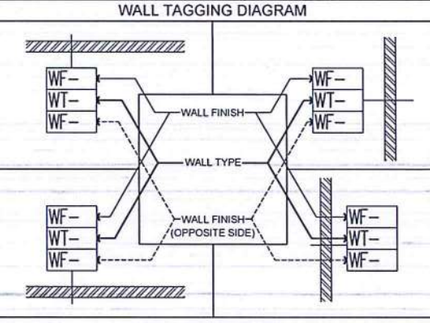
2 / A-12 | A-12 SCHEDULE OF DOORS & WINDOWS
SCALE: 1 : 50 M

LEGEND	
TAG	WALL FINISHES
WF-1	PLAIN CEMENT SMOOTH PLASTERED IN ELASTOMERIC PAINT FINISH
WF-2	PLAIN CEMENT SMOOTH PLASTERED IN LATEX PAINT FINISH
WF-3	300 X 600MM HOMOGENEOUS TILES POLISHED FINISH
WF-4	NATURAL STONE CLADDING WITH CLEAR TOP COAT FINISH
TAG	FLOOR FINISHES
FF-1	600 MM X 600 MM HOMOGENEOUS FLOOR TILES (POLISHED FINISH)
FF-2	TORCH APPLIED WATERPROOFING MEMBRANE WITH 2" THK. STRAIGHT TO FINISH CONCRETE TOPPING WITH WIRE MESH

SCHEDULE OF WALL TYPES



WALL TAGGING DIAGRAM



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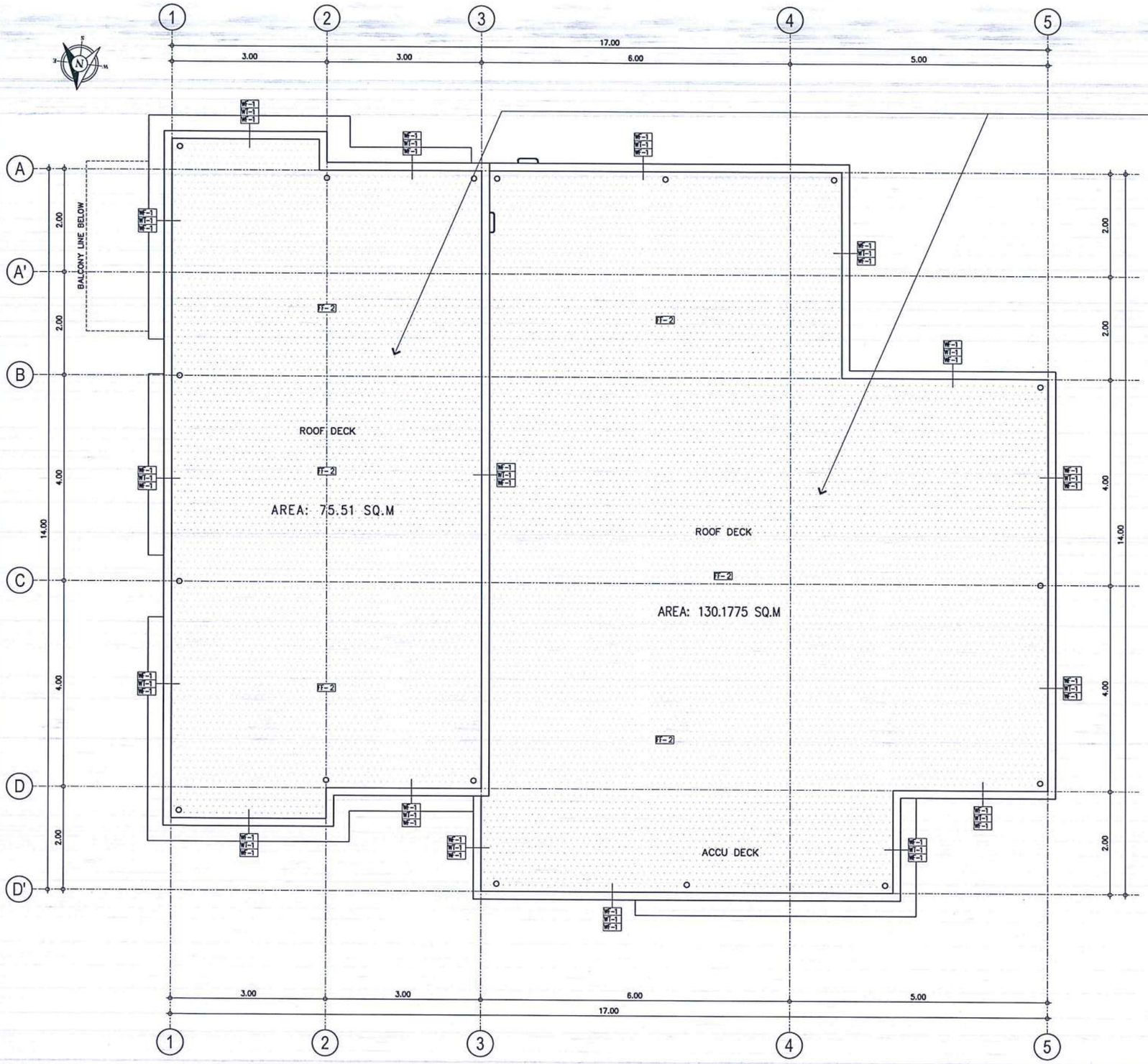
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- GROUND FLOOR DETAILED PLAN
- WALL & FLOOR FINISHES
- SCHEDULE OF WALL TYPES

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 12



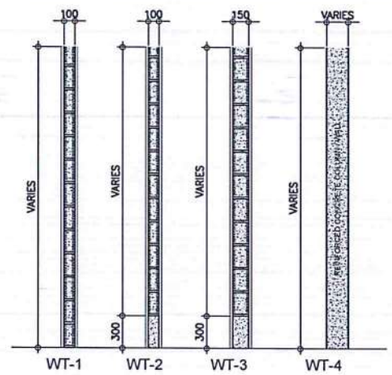
ROOF PLAN
DETAILED PLAN
1 / A-13 | A-13
SCALE: 1 : 50 M

LEGEND

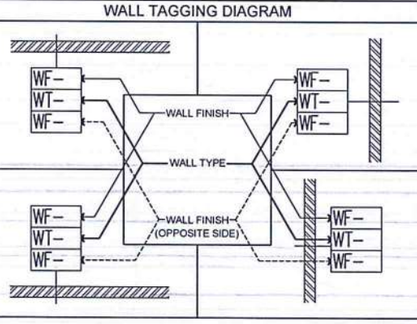
TAG	WALL FINISHES
WF-1	PLAIN CEMENT SMOOTH PLASTERED IN ELASTOMERIC PAINT FINISH
WF-2	PLAIN CEMENT SMOOTH PLASTERED IN LATEX PAINT FINISH
WF-3	300 X 600MM HOMOGENEOUS TILES POLISHED FINISH
WF-4	NATURAL STONE CLADDING WITH CLEAR TOP COAT FINISH

TAG	FLOOR FINISHES
FF-1	600 MM X 600 MM HOMOGENEOUS FLOOR TILES (POLISHED FINISH)
FF-2	TORCH APPLIED WATERPROOFING MEMBRANE WITH 2" THK. STRAIGHT TO FINISH CONCRETE TOPPING WITH WIRE MESH

SCHEDULE OF WALL TYPES



WALL TAGGING DIAGRAM



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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	RCJ
CHECKED BY:	SJD

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
ARNEL P. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

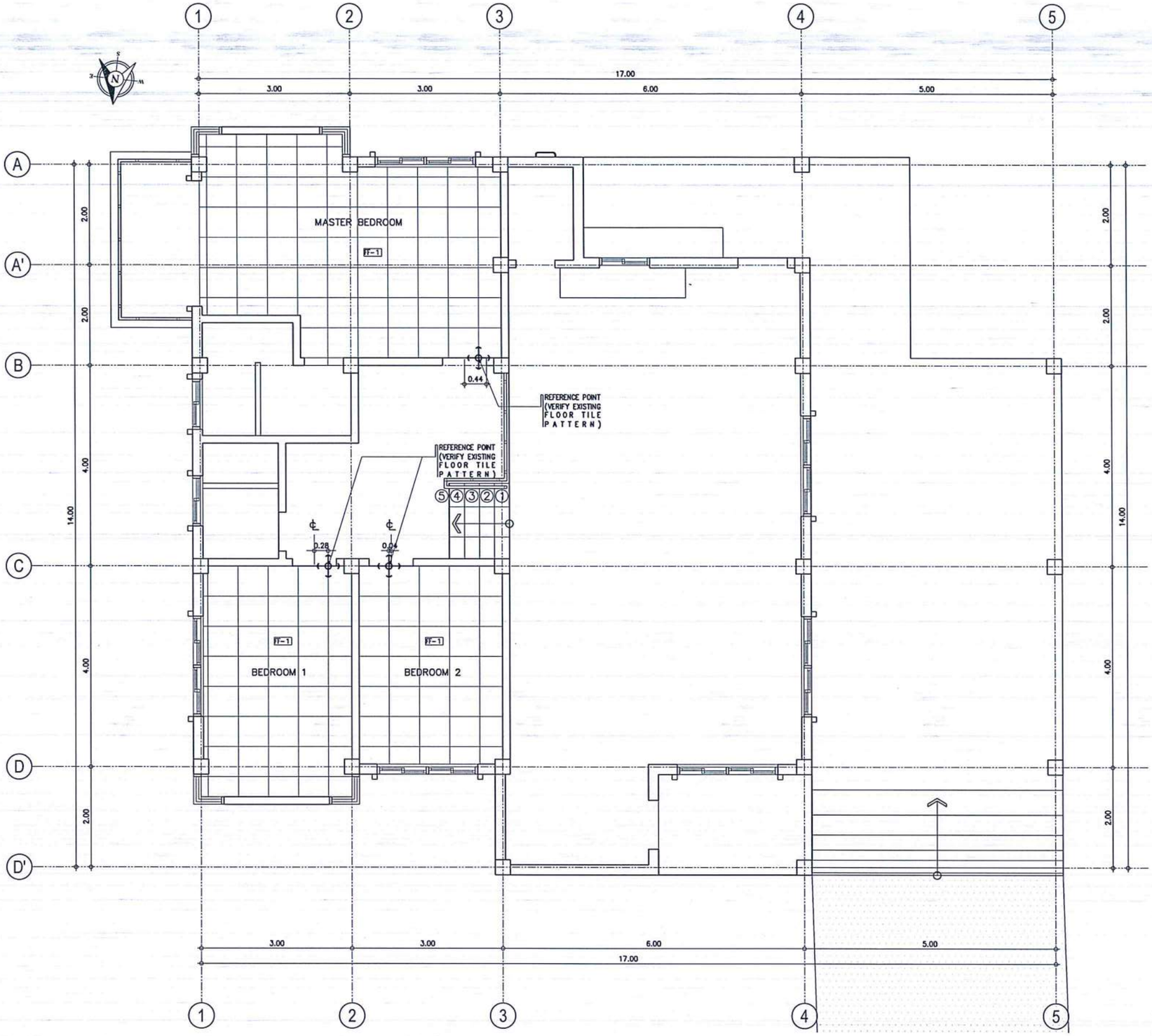
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF CAAP QUARTERS - 2)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- ROOFDECK DETAILED PLAN
- WALL & FLOOR FINISHES
- SCHEDULE OF WALL TYPES

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 13



1 / A-14 | A-14 GROUND FLOOR TILE LAYOUT PLAN

SCALE: 1 : 50 M

LEGEND

TAG	FLOOR FINISHES
FF-1	600MM X 600MM HOMOGENEOUS TILES POLISHED FINISH

NOTE: OBSERVE 3MM TILE SPACING FOR GROUT (SUBMIT GROUT SAMPLE FOR APPROVAL)

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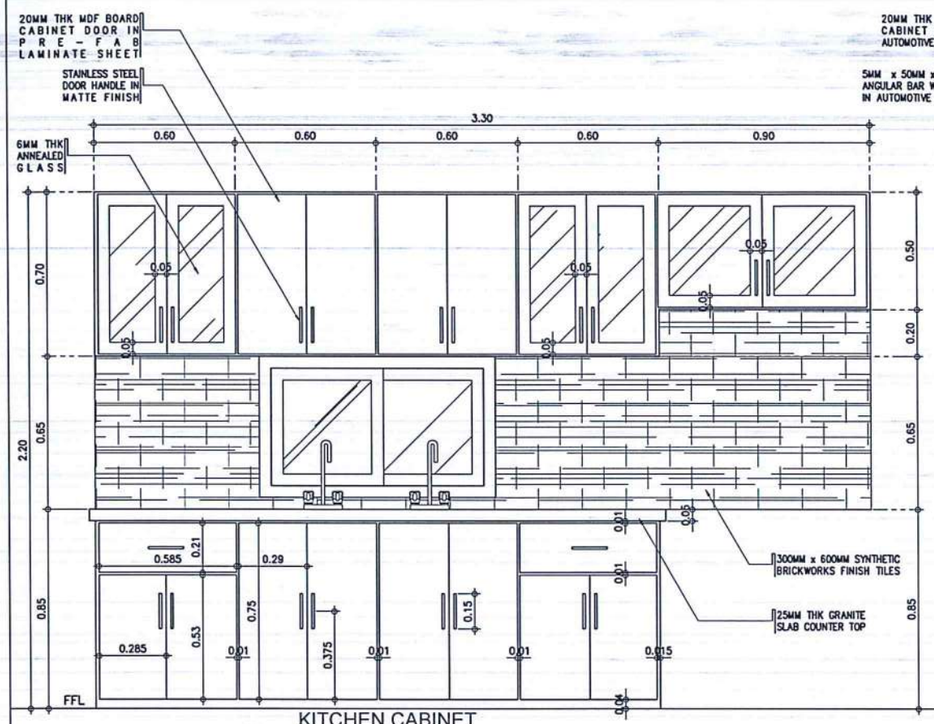
SHEET CONTENTS:
- GROUND FLOOR TILE LAYOUT PLAN
- FLOOR FINISHES

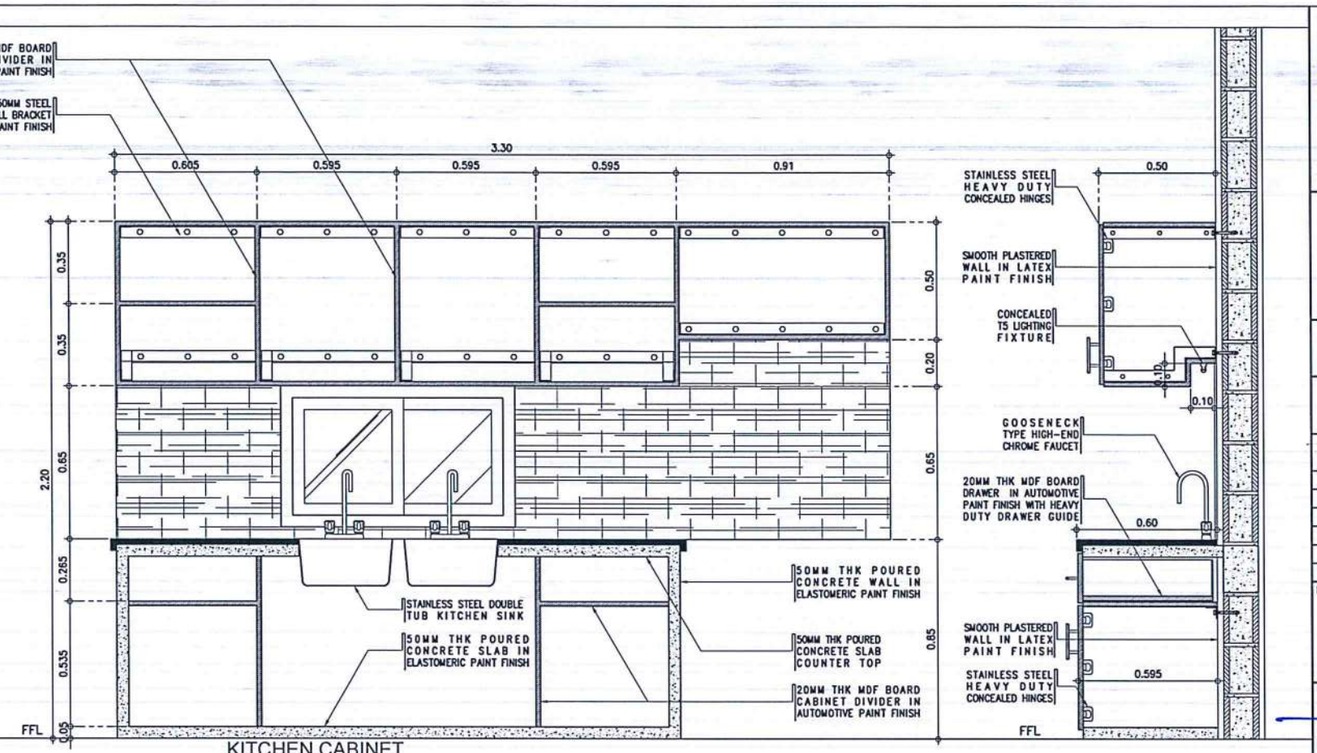
DRAWING SCALE:	SHEET NO.:
AS SHOWN	A - 14



KITCHEN CABINET

DETAILED ELEVATION

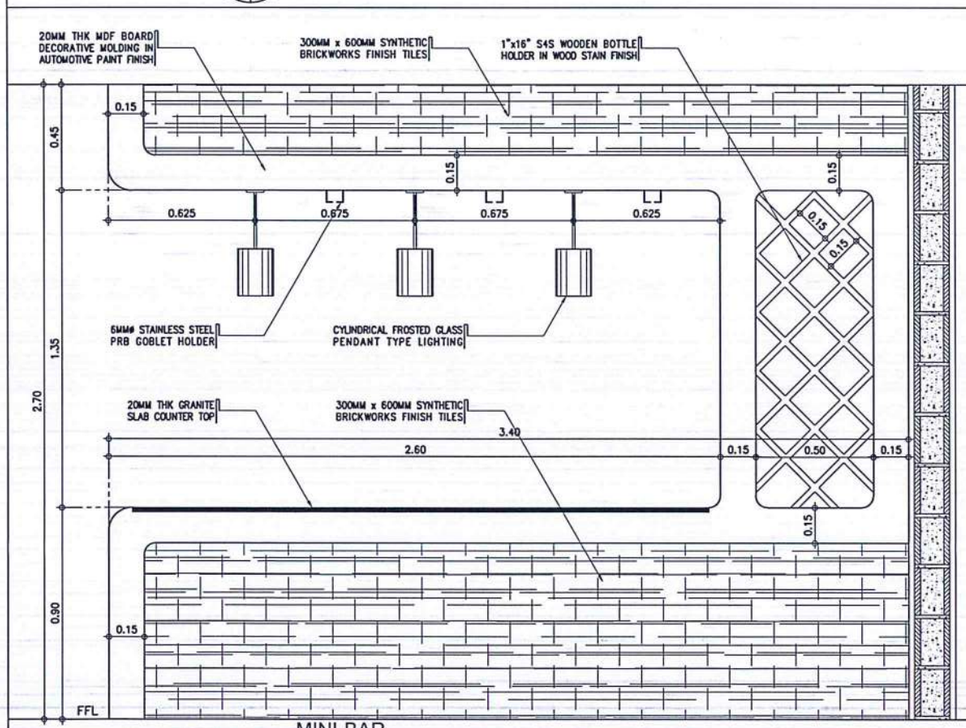
1 / A-15 | A-15 SCALE: 1 : 15 M



KITCHEN CABINET

DETAILED CROSS & LONGITUDINAL SECTIONS

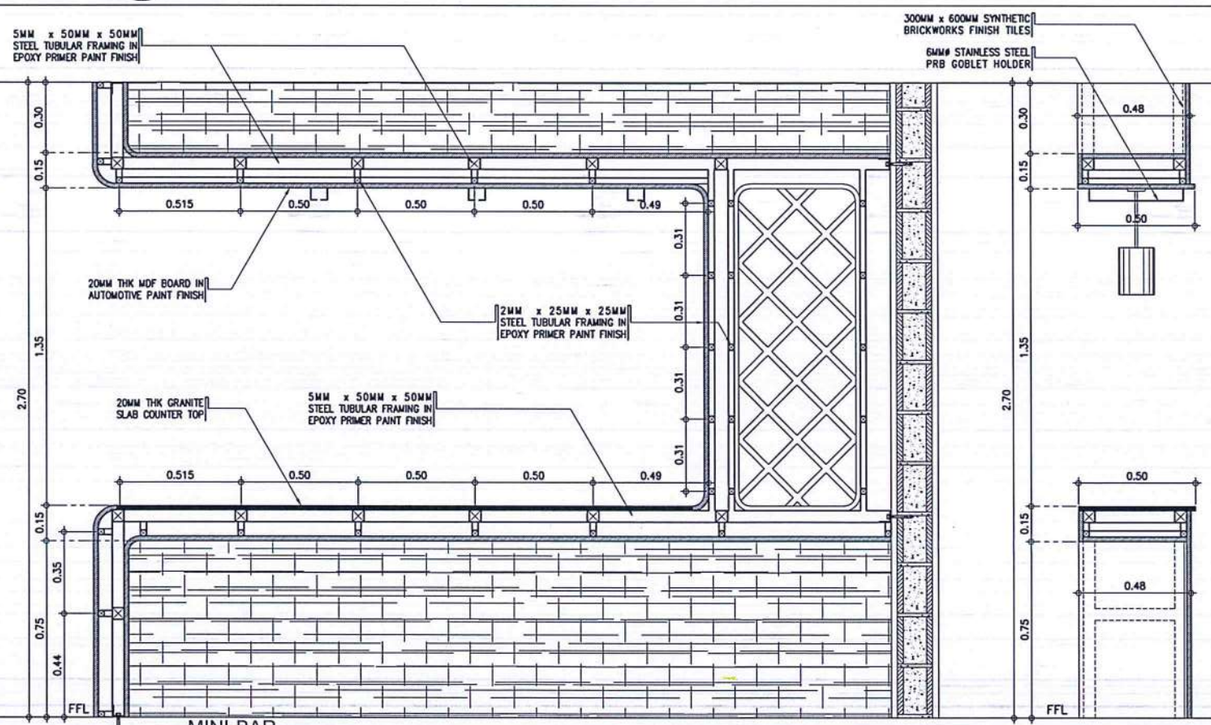
2 / A-15 | A-15 SCALE: 1 : 15 M



MINI-BAR

DETAILED ELEVATION

3 / A-15 | A-15 SCALE: 1 : 15 M



MINI-BAR

DETAILED CROSS & LONGITUDINAL SECTIONS

4 / A-15 | A-15 SCALE: 1 : 15 M

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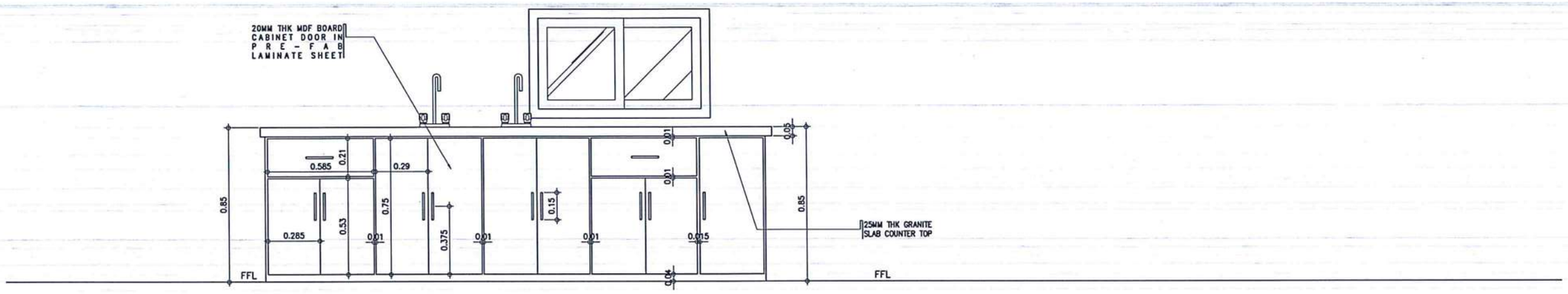
TAGUIG CITY

SHEET CONTENTS:

- KITCHEN COUNTER & MINI-BAR DETAILS

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 15

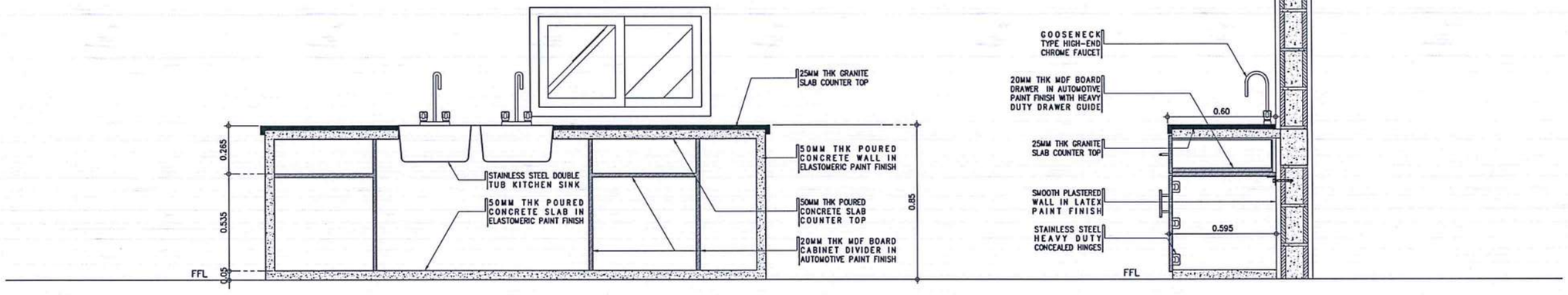


DIRTY KITCHEN

1 / A-16 | A-16

DETAILED ELEVATION

SCALE: 1 : 15 M



DIRTY KITCHEN

2 / A-16 | A-16

DETAILED CROSS & LONGITUDINAL SECTIONS

SCALE: 1 : 15 M

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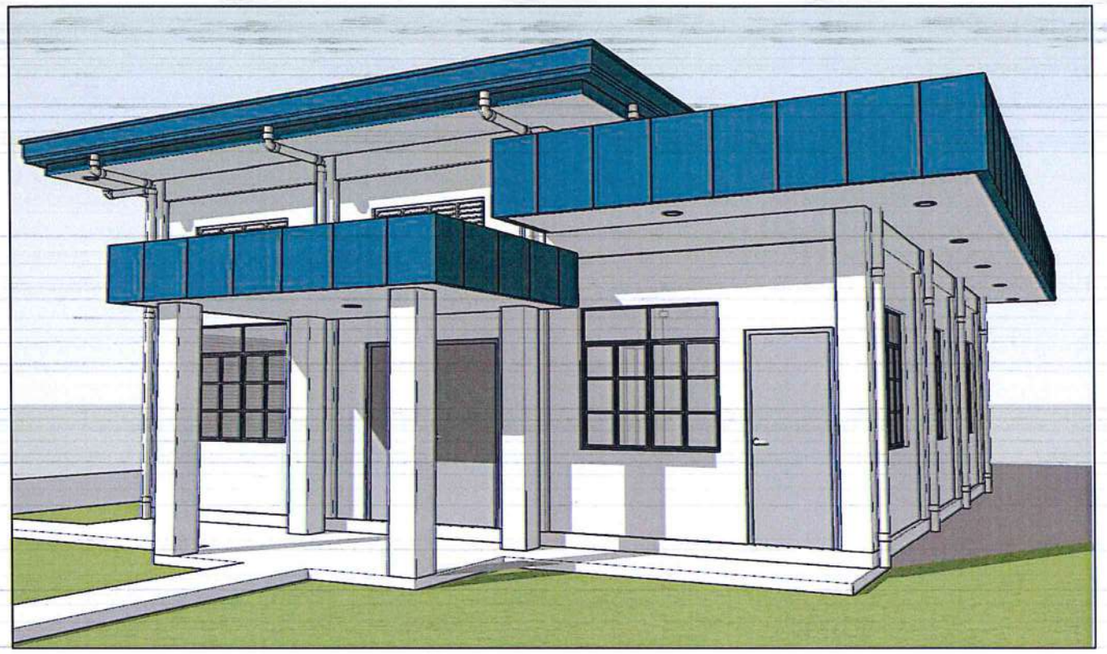
TAGUIG CITY

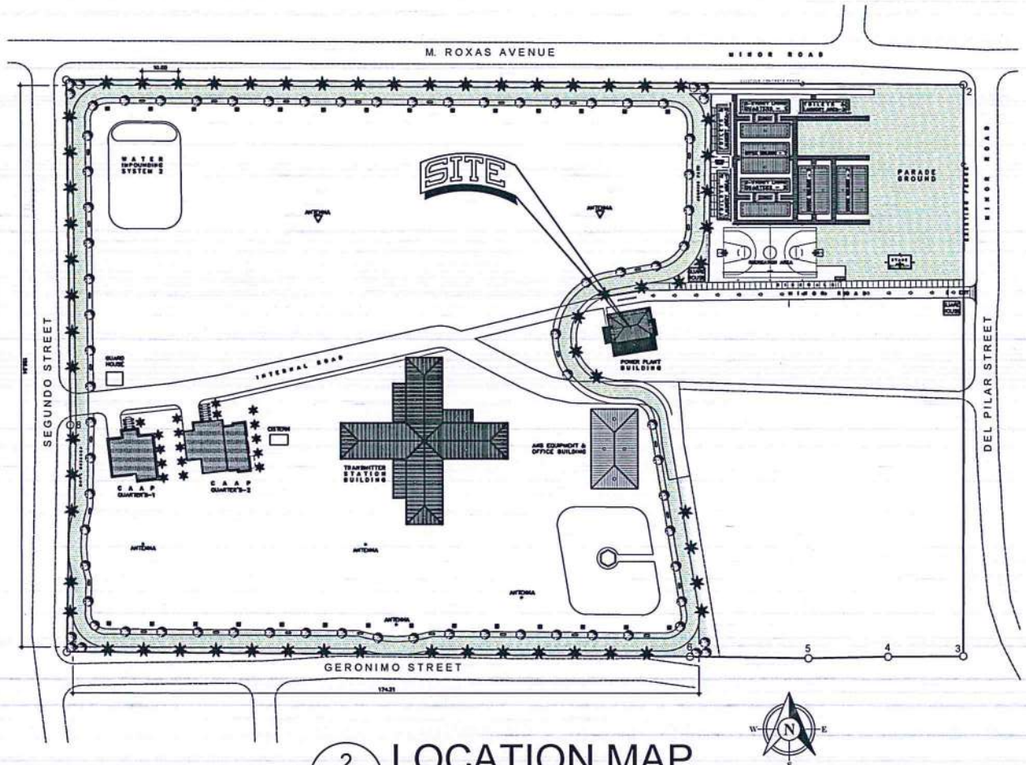
SHEET CONTENTS:

- DIRTY KITCHEN DETAILS

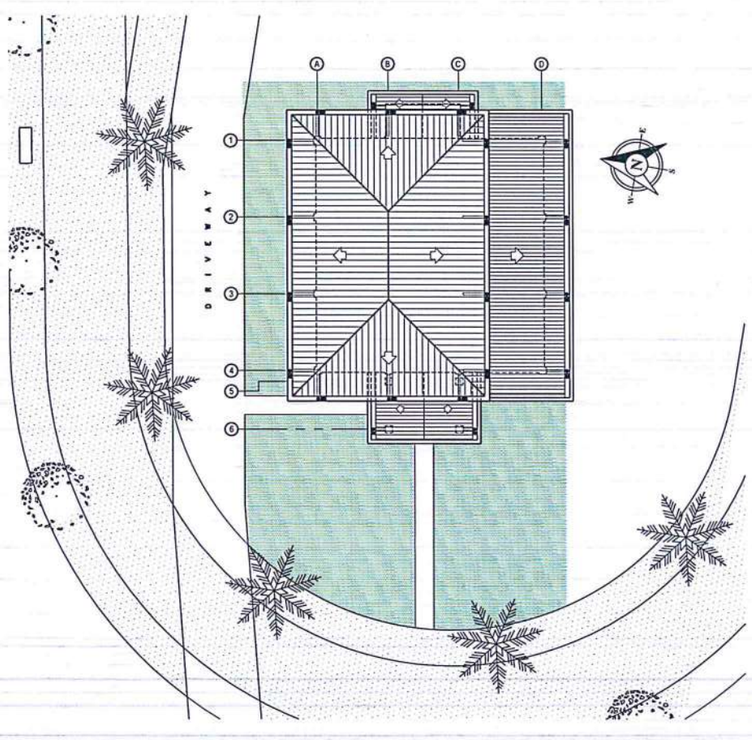
DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 16



1 A-17/A-17 **PERSPECTIVE**
SCALE: NTS



2 A-17/A-17 **LOCATION MAP**
SCALE: 1 : 1000 M



3 A-17/A-17 **SITE DEVELOPMENT PLAN**
SCALE: 1 : 150 M

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TAGUIG CITY

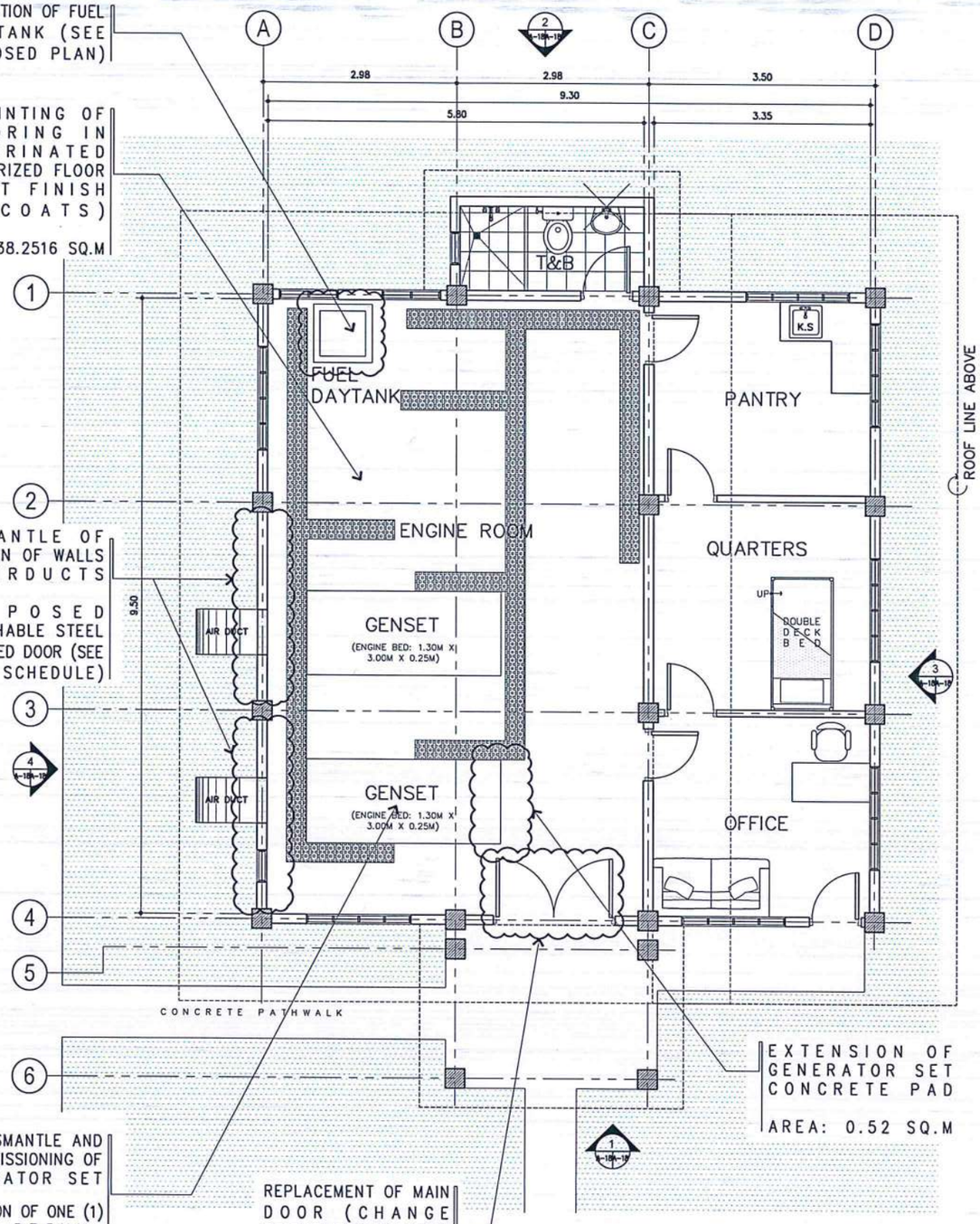
SHEET CONTENTS:
- EXTERIOR PERSPECTIVE
- LOCATION MAP
- SITE DEVELOPMENT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 17

- RELOCATION OF FUEL DAY TANK (SEE PROPOSED PLAN)
- REPAINTING OF FLOORING IN CHLORINATED RUBBERIZED FLOOR PAINT FINISH (2 – COATS)

AREA: 38.2516 SQ.M

- DISMANTLE OF PORTION OF WALLS & AIRDUCTS
- PROPOSED DETACHABLE STEEL LOUVERED DOOR (SEE DOOR SCHEDULE)



FOR DISMANTLE AND DECOMMISSIONING OF GENERATOR SET

PROVISION OF ONE (1) UNIT 375KVA GENERATOR SET

REPLACEMENT OF MAIN DOOR (CHANGE ORIENTATION OF DOOR OPENING)

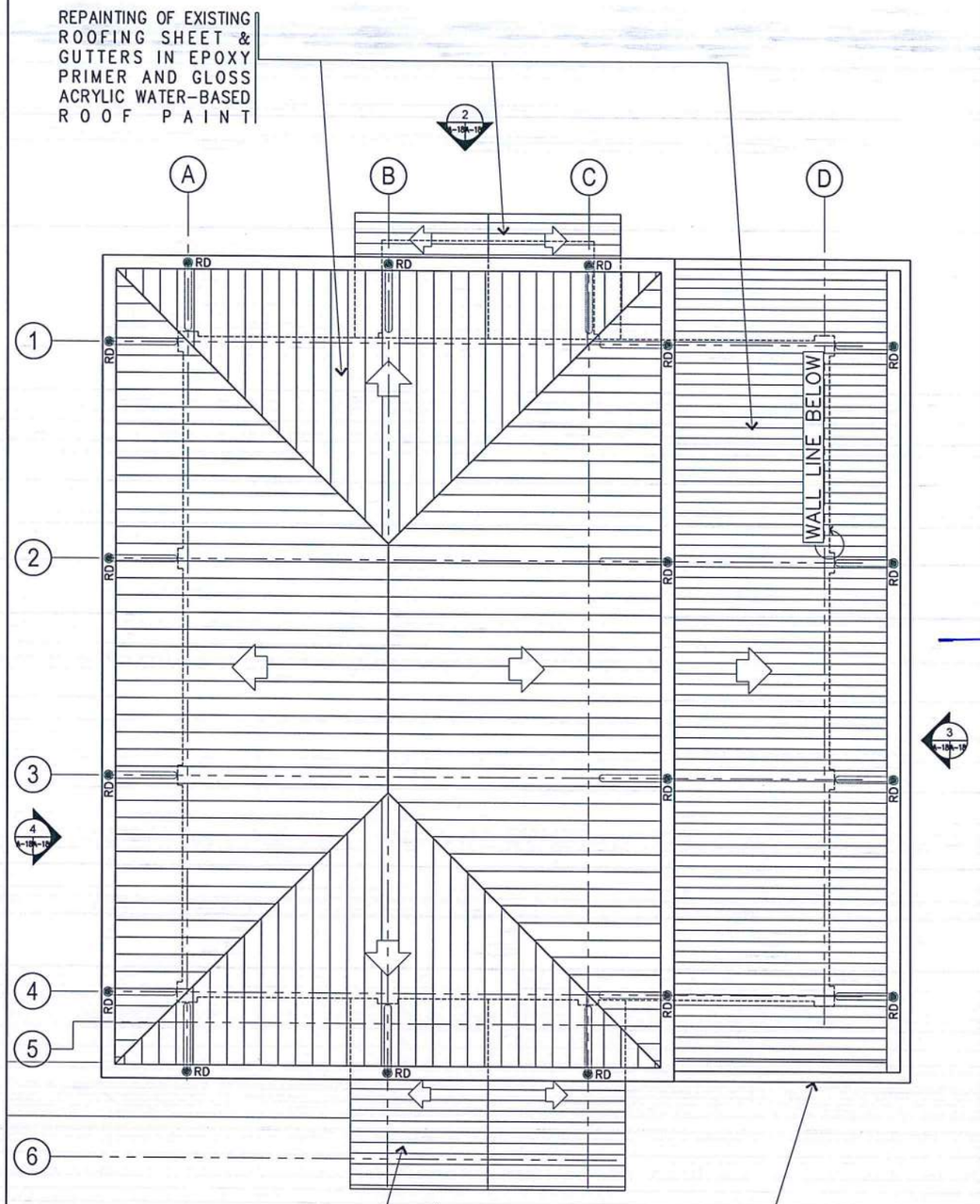
EXTENSION OF GENERATOR SET CONCRETE PAD

AREA: 0.52 SQ.M

1 A-18/A-18 GROUND FLOOR EXISTING & DEMOLITION PLAN

SCALE: 1:50 MTS.

REPAINTING OF EXISTING ROOFING SHEET & GUTTERS IN EPOXY PRIMER AND GLOSS ACRYLIC WATER-BASED ROOF PAINT



SEE PROPOSED ROOF PLAN & ELEVATION WITH PARAPET WALL, ROOF DRAIN, PVC DOWNSPOUT AND ACP (ALUMINUM COMPOSITE PANEL)

SEE PROPOSED ROOF PLAN & ELEVATION WITH PARAPET WALL AND ACP (ALUMINUM COMPOSITE PANEL)

2 A-18/A-18 ROOF EXISTING & DEMOLITION PLAN

SCALE: 1:50 MTS.

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Director General

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(REHABILITATION OF POWERPLANT BUILDING)

LOCATION:

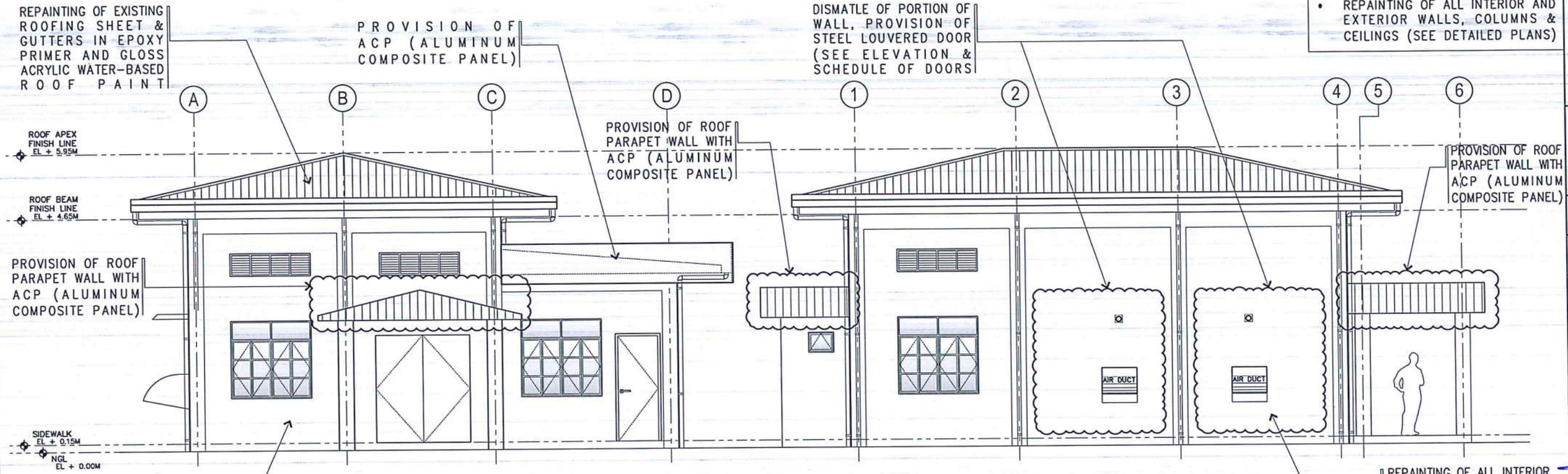
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

- GROUND FLOOR EXISTING & DEMOLITION PLAN
- ROOF EXISTING & DEMOLITION PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 18

OTHER SCOPE:
- REPAINTING OF ALL INTERIOR AND EXTERIOR WALLS, COLUMNS & CEILINGS (SEE DETAILED PLANS)



REPAINTING OF ALL INTERIOR & EXTERIOR WALLS & COLUMNS (2-COATS SEMI GLOSS LATEX PAINT FINISH)

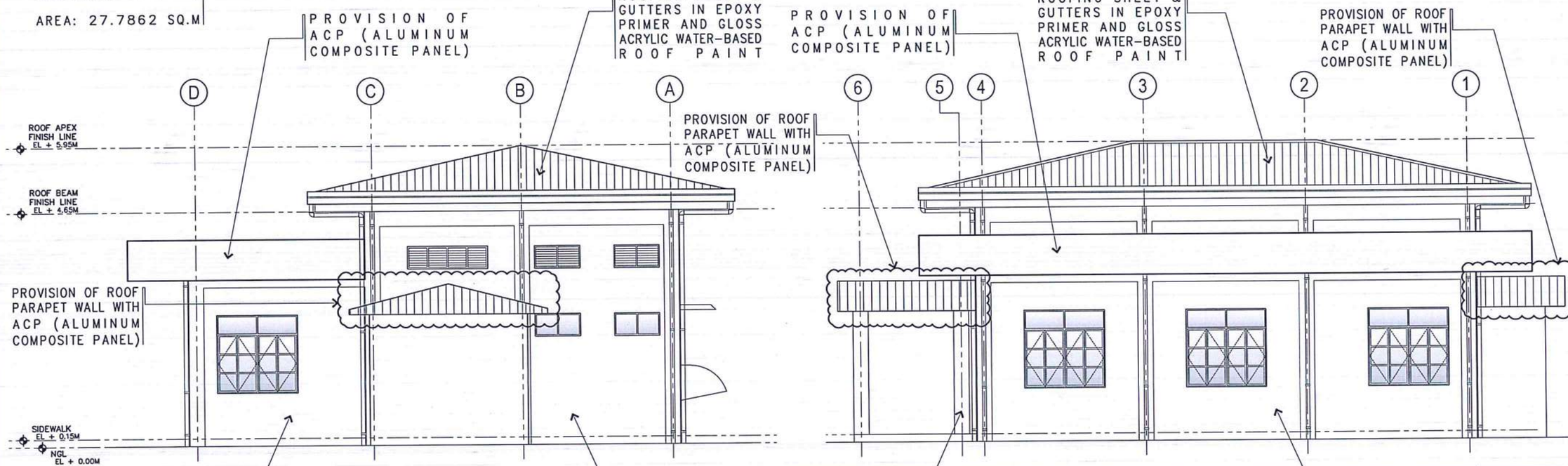
AREA: 27.7862 SQ.M

1 A-19/A-19 EXISTING
FRONT ELEVATION
SCALE: 1:50 MTS.

REPAINTING OF ALL INTERIOR & EXTERIOR WALLS & COLUMNS (2-COATS SEMI GLOSS LATEX PAINT FINISH)

AREA: 38.0650 SQ.M

3 A-19/A-19 EXISTING
LEFT-SIDE ELEVATION
SCALE: 1:50 MTS.



REPAINTING OF ALL INTERIOR & EXTERIOR WALLS & COLUMNS (2-COATS SEMI GLOSS LATEX PAINT FINISH)

AREA: 35.3863 SQ.M

2 A-19/A-19 EXISTING
REAR ELEVATION
SCALE: 1:50 MTS.

REPAINTING OF ALL INTERIOR & EXTERIOR WALLS & COLUMNS (2-COATS SEMI GLOSS LATEX PAINT FINISH)

4 A-19/A-19 EXISTING
RIGHT-SIDE ELEVATION
SCALE: 1:50 MTS.

REPAINTING OF ALL INTERIOR & EXTERIOR WALLS & COLUMNS (2-COATS SEMI GLOSS LATEX PAINT FINISH)

AREA: 38.0650 SQ.M

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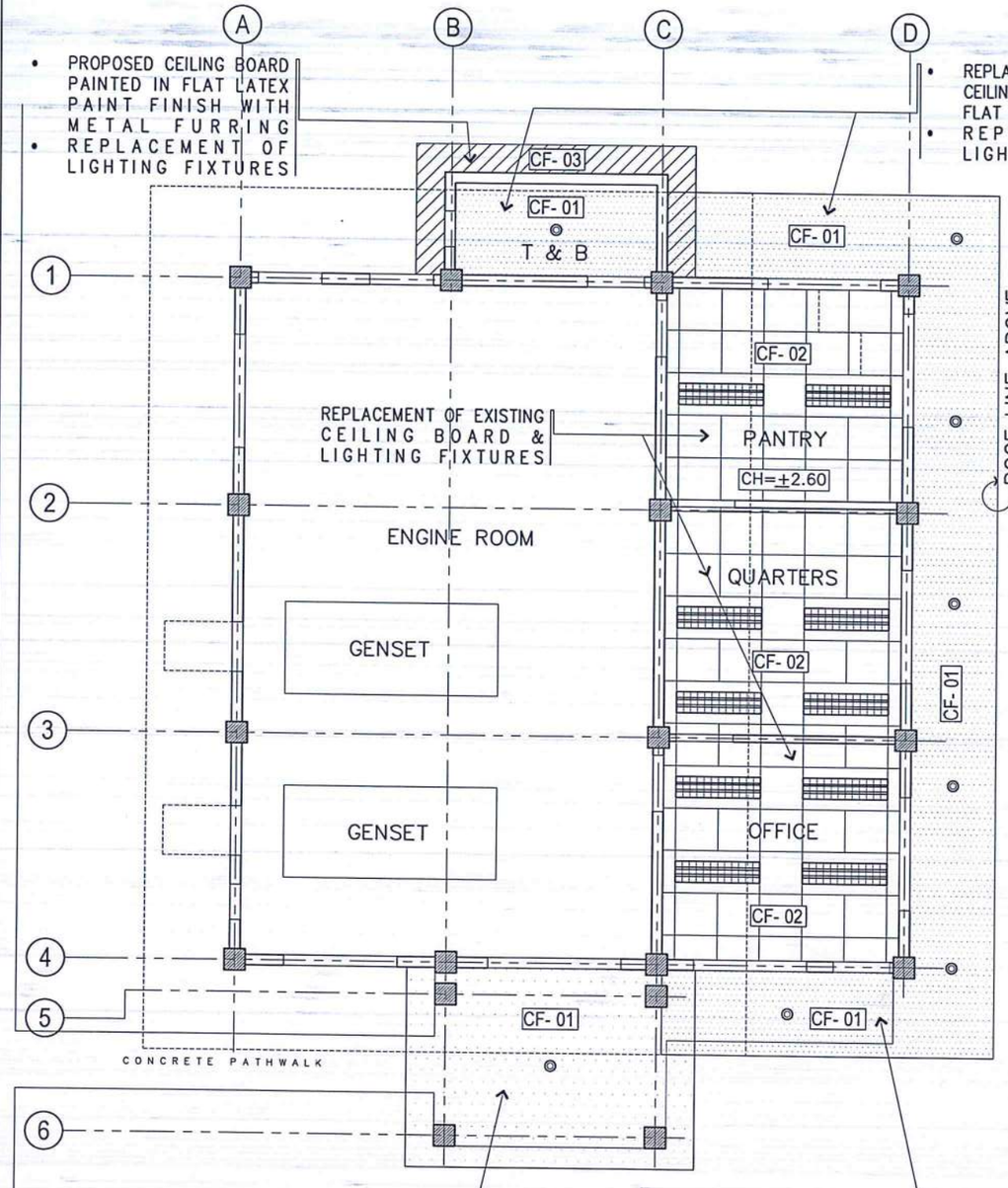
SHEET CONTENTS:
- EXISTING BUILDING ELEVATIONS (FRONT, REAR, RIGHT & LEFT-SIDE)

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 19



- PROPOSED CEILING BOARD PAINTED IN FLAT LATEX PAINT FINISH WITH METAL FURRING
- REPLACEMENT OF LIGHTING FIXTURES

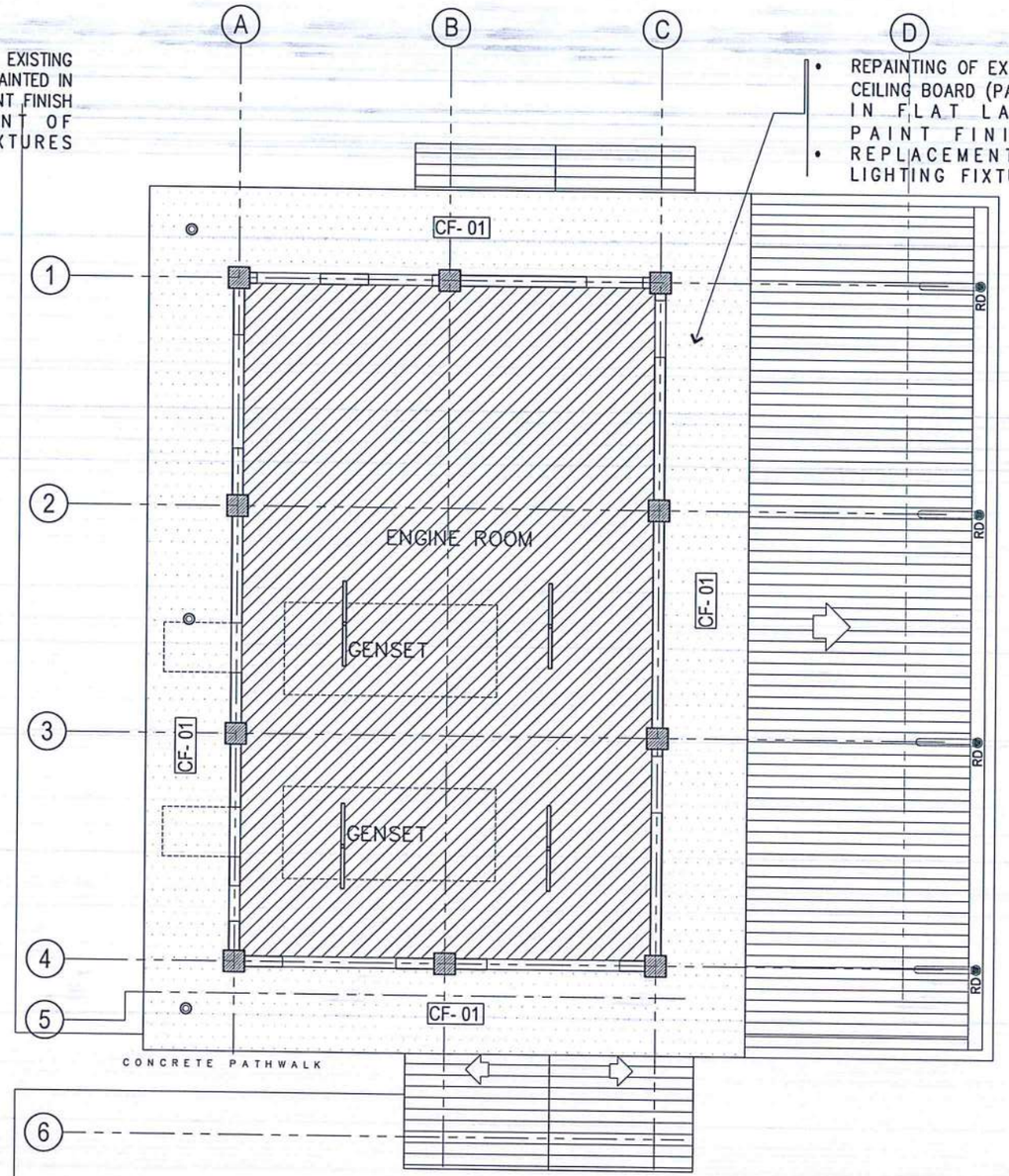
- REPLACEMENT OF EXISTING CEILING BOARD PAINTED IN FLAT LATEX PAINT FINISH
- REPLACEMENT OF LIGHTING FIXTURES

- PROPOSED CEILING BOARD PAINTED IN FLAT LATEX PAINT FINISH WITH METAL FURRING
- REPLACEMENT OF LIGHTING FIXTURES

- REPLACEMENT OF EXISTING CEILING BOARD PAINTED IN FLAT LATEX PAINT FINISH
- REPLACEMENT OF LIGHTING FIXTURES

1 A-20/A-20 EXISTING REFLECTED CEILING PLAN - A

SCALE: 1:50 MTS.



- REPAINTING OF EXISTING CEILING BOARD (PAINTED IN FLAT LATEX PAINT FINISH)
- REPLACEMENT OF LIGHTING FIXTURES

2 A-20/A-20 EXISTING REFLECTED CEILING PLAN - B

SCALE: 1:50 MTS.

LEGEND	
◎	6" Ø 15 WATTS RECESSED TYPE VERTICAL DOWN LIGHT FIXTURE
▦	0.30M X 1.20M RECESSED FLUORESCENT FIXTURES, LOUVER TYPE WITH MIRRORIZED ALUMINUM REFLECTOR
▬	1.20M T5 ELECTRONIC FLUORESCENT LIGHTING FIXTURE

TAG	SCHEDULE OF CEILING FINISHES
CF-1	4.5 MM THK. MOISTURE RESISTANTFIBER CEMENT BOARD IN FLAT LATEX PAINT FINISH
CF-2	12 MM THK. X 4' X 8' MOISTURE RESISTANT GYPSUM BOARD IN FLAT LATEX PAINT FINISH
CF-3	OPEN TRUSSES

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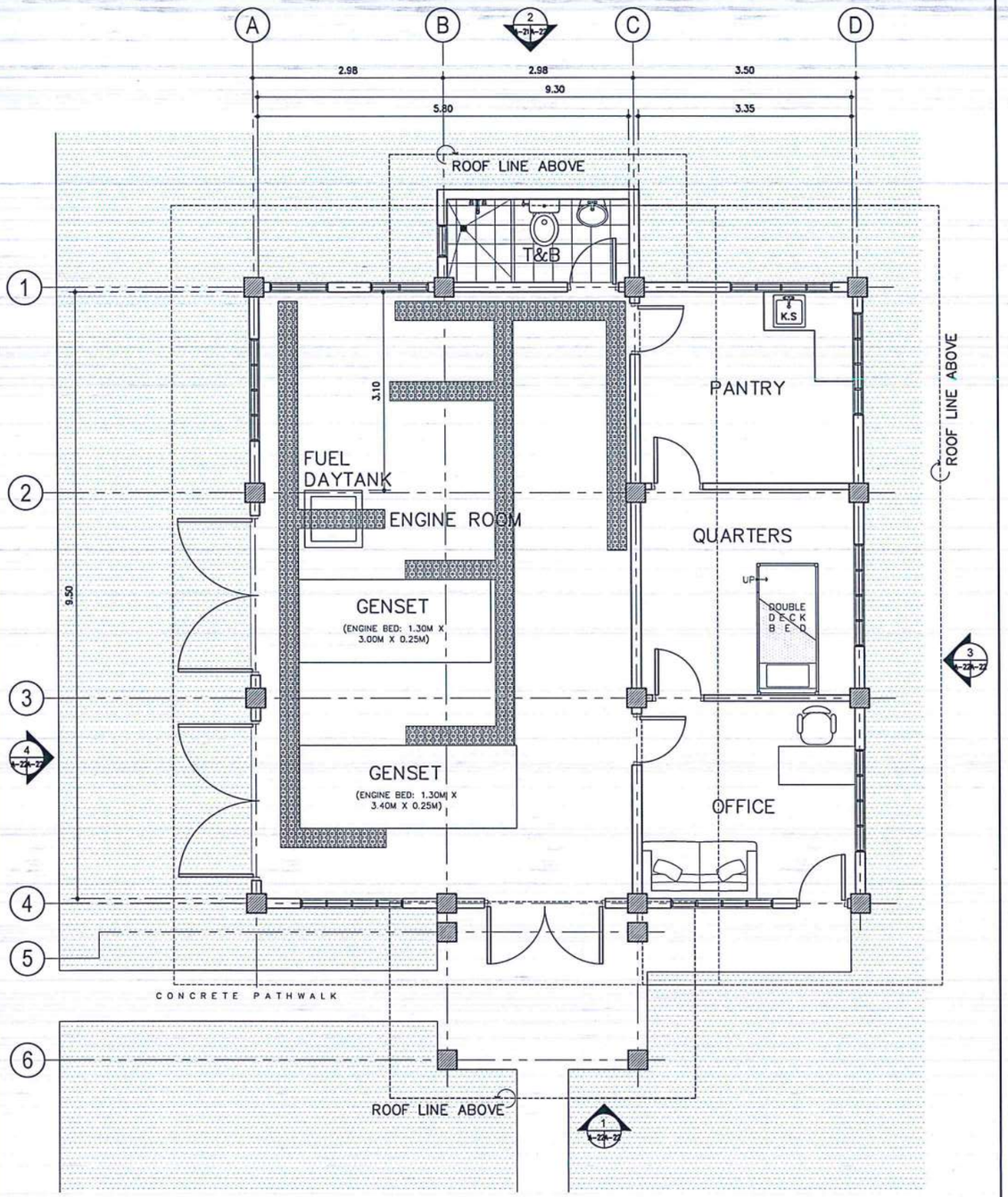
TAGUIG CITY

SHEET CONTENTS:

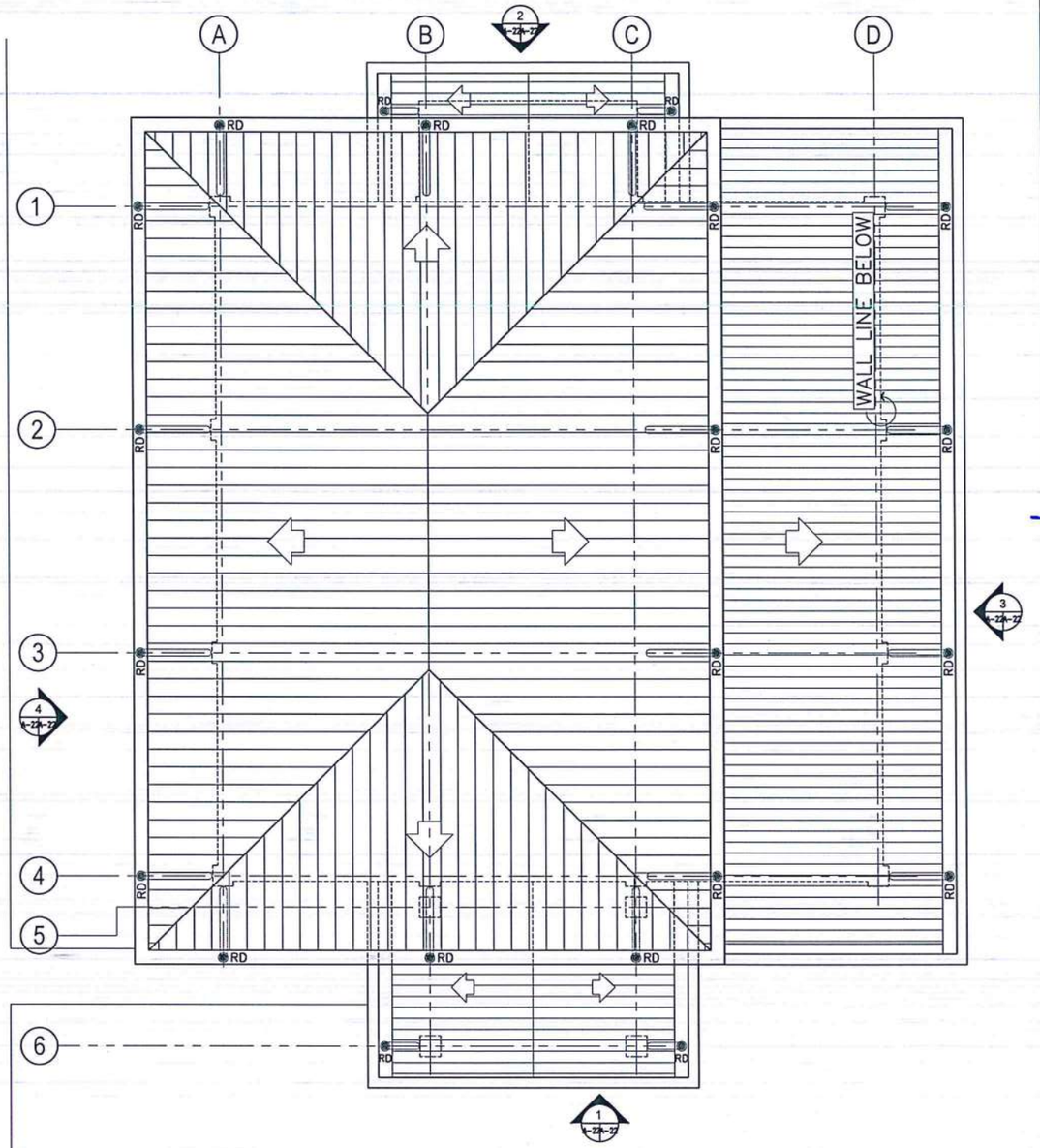
- EXISTING REFLECTED CEILING PLAN - A & B
- LEGEND
- SCHEDULE OF CEILING FINISHES

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 20



1 A-21 A-21 PROPOSED GROUND FLOOR PLAN

SCALE: 1:50 MTS.



2 A-21 A-21 PROPOSED ROOF PLAN

SCALE: 1:50 MTS.

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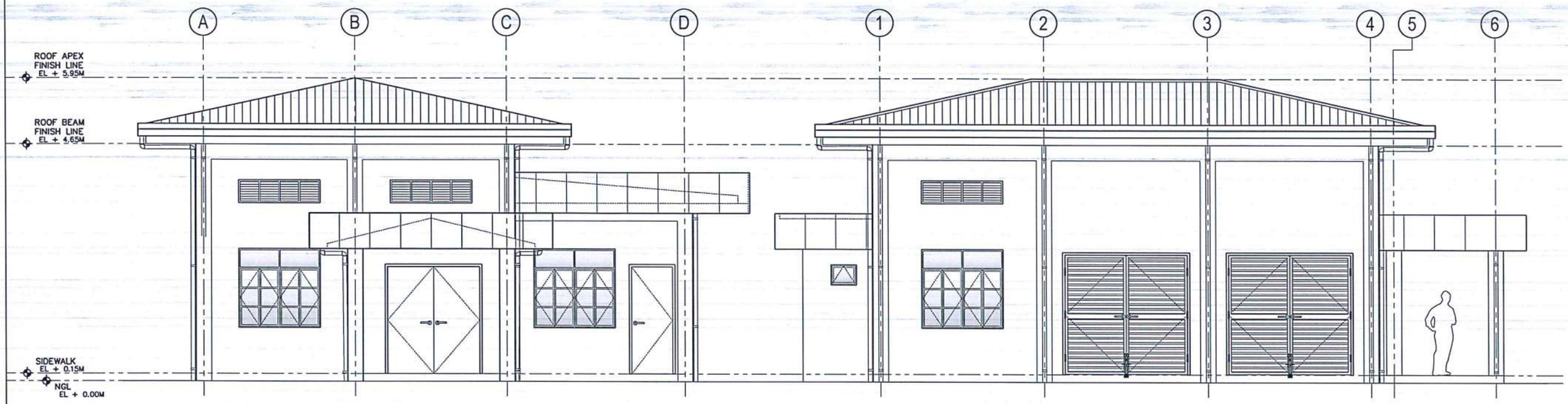
SHEET CONTENTS:

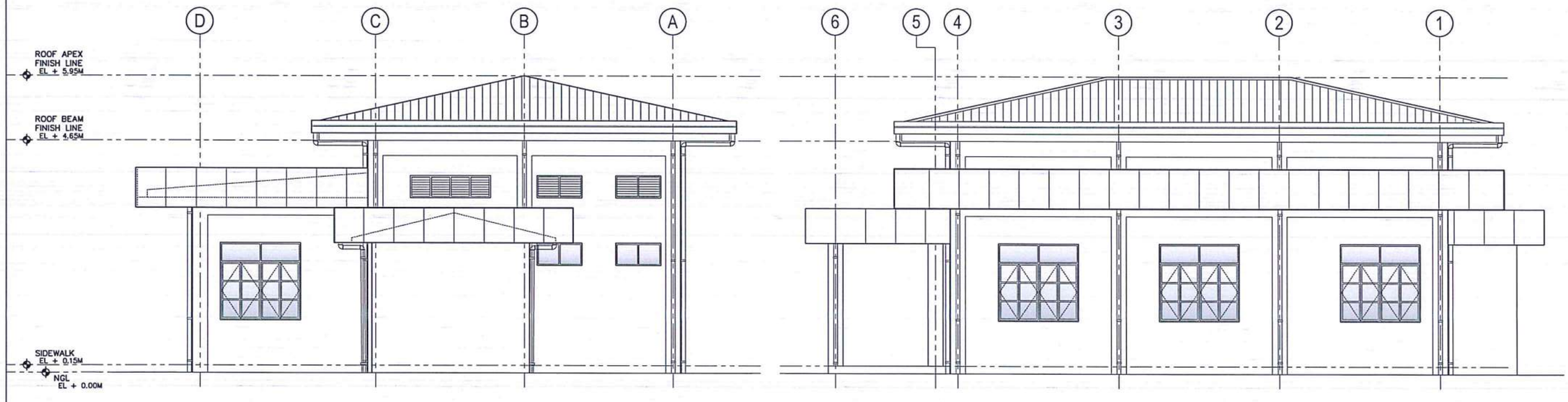
- PROPOSED GROUND FLOOR & ROOF PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 21



1 A-22/A-22 PROPOSED
FRONT ELEVATION
SCALE: 1:50 MTS.

3 A-22/A-22 PROPOSED
LEFT-SIDE ELEVATION
SCALE: 1:50 MTS.



2 A-22/A-22 PROPOSED
REAR ELEVATION
SCALE: 1:50 MTS.

4 A-22/A-22 PROPOSED
RIGHT-SIDE ELEVATION
SCALE: 1:50 MTS.

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CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	RCJ	
CHECKED BY:	SJD	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
ADC II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF CAAP QUARTERS - 2)

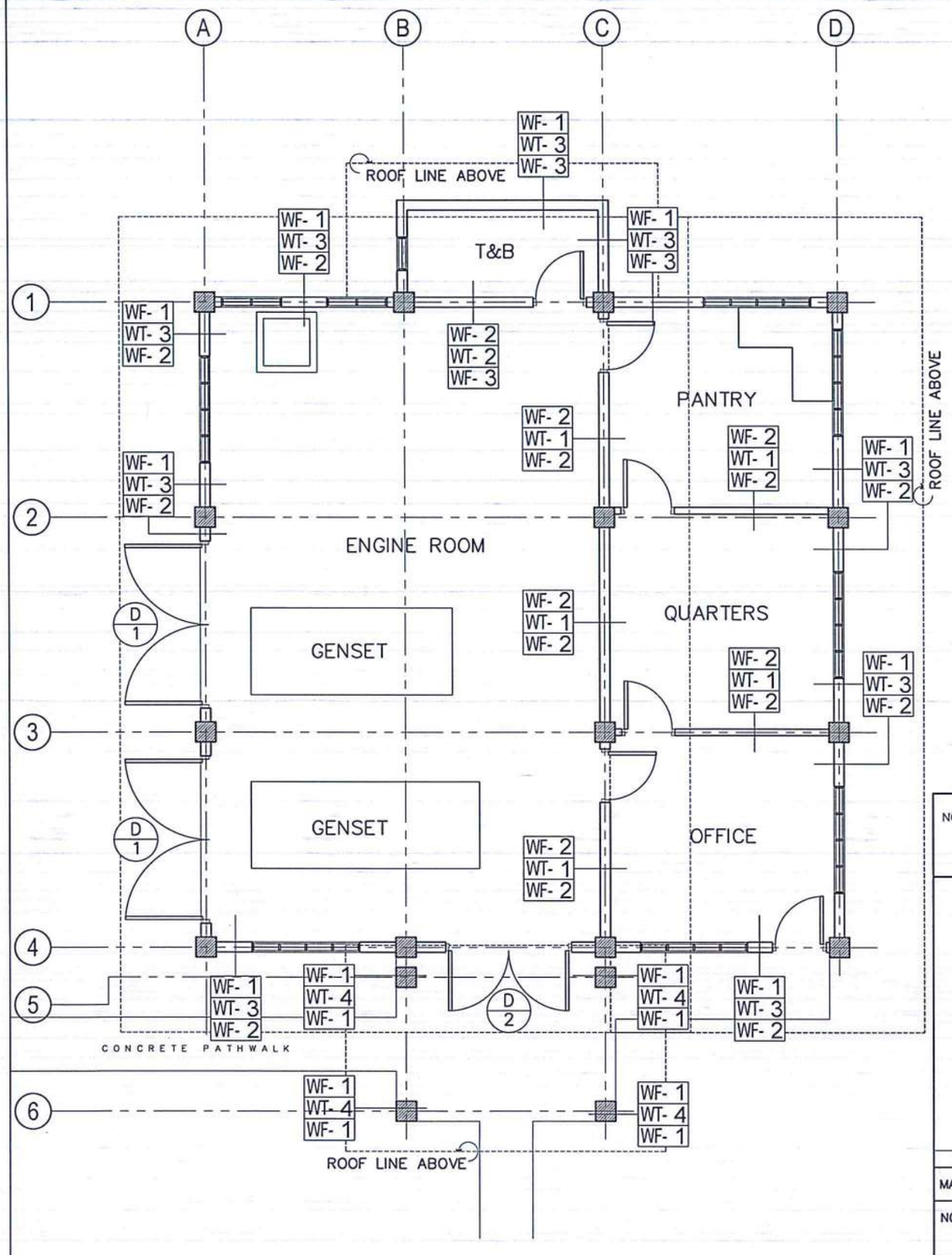
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

- PROPOSED BUILDING ELEVATIONS (FRONT, REAR, RIGHT & LEFT-SIDE)

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 22

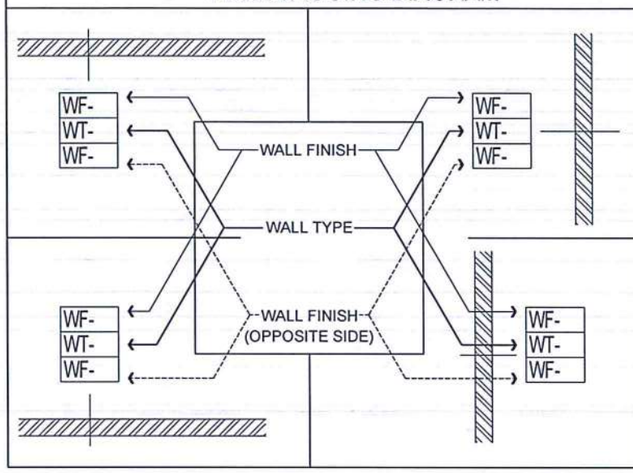


1 / A-23|A-23 GROUND FLOOR DETAILED PLAN
SCALE: 1:50 MTS.

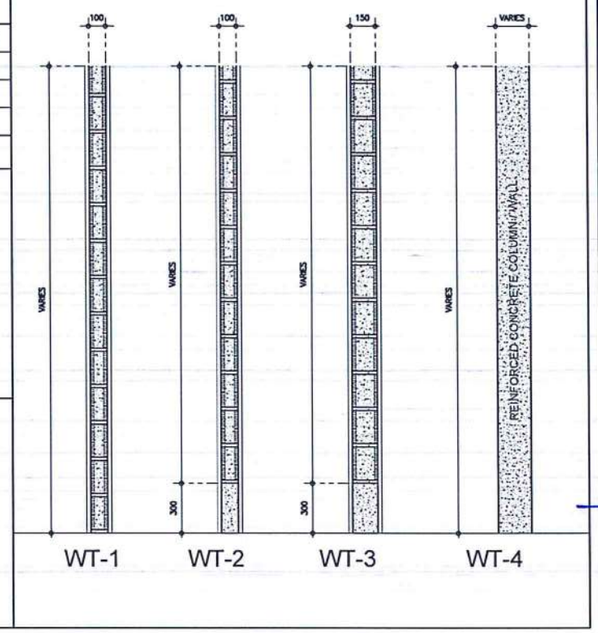
LEGEND

TAG	WALL FINISHES
WF-1	PLAIN CEMENT SMOOTH PLASTERED IN ELASTOMERIC PAINT FINISH
WF-2	PLAIN CEMENT SMOOTH PLASTERED IN LATEX PAINT FINISH
WF-3	300 X 600MM HOMOGENEOUS TILES POLISHED FINISH

WALL TAGGING DIAGRAM

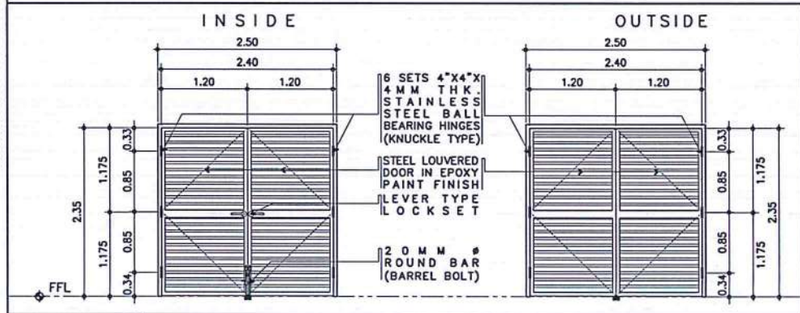


SCHEDULE OF WALL TYPES



NOTE:
1. VERIFY ACTUAL DIMENSION @ JOBSITE BEFORE FABRICATION, MAKE ACTUAL SHOP DRAWING FOR ARCHITECT & OWNER.
2. RESPONSIBILITY OF CONTRACTOR TO CHECK/ESTIMATE THE REQUIREMENTS BASED ON THE PLANS.

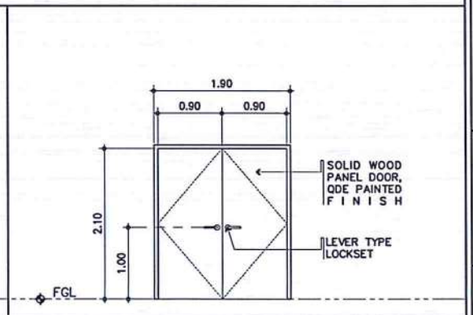
1 / A-23|A-23 SCHEDULE OF DOORS
SCALE: 1:50 MTS.



MARK	D/01
NO. OF SETS	2

LOCATION:
GROUND FLOOR
GENERATOR SET ROOM (2)

SPECIFICATIONS:
DOUBLE LEAF, SINGLE SWING, GA#16 PRESSED GALVALUME STEEL LOUVER BLADE ON GA#14 TUBULAR FRAME SINGLE RABBET JAMB & HEADER PAINTED W/ EPOXY PAINT FINISH (COLOR: VERIFY ARCHITECT) WITH COMPLETE DOORS HARDWARE AND ACCESSORIES



SPECIFICATIONS:
SINGLE LEAF, SINGLE SWING SOLID WOOD PANEL DOOR QDE PAINTED FINISH WITH LEVER TYPE DOOR LOCKSET (WITH COMPLETE DOOR HARDWARE AND ACCESSORIES)

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
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DRAWN BY:	RCJ
CHECKED BY:	SJD

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
ARNEL P. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

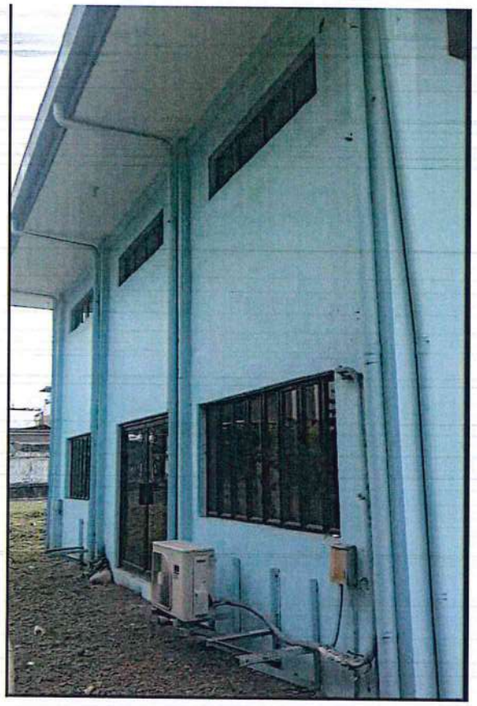
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF CAAP QUARTERS - 2)

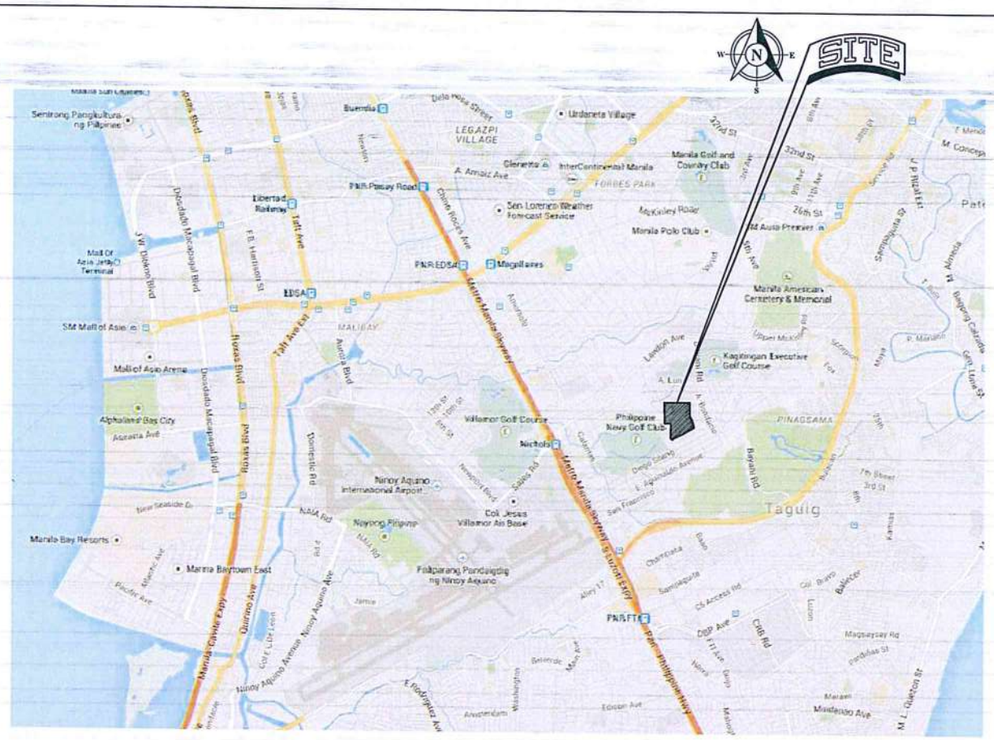
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- GROUND FLOOR DETAILED PLAN
- SCHEDULE OF WALL FINISHES & WALL TYPES
- SCHEDULE OF DOORS

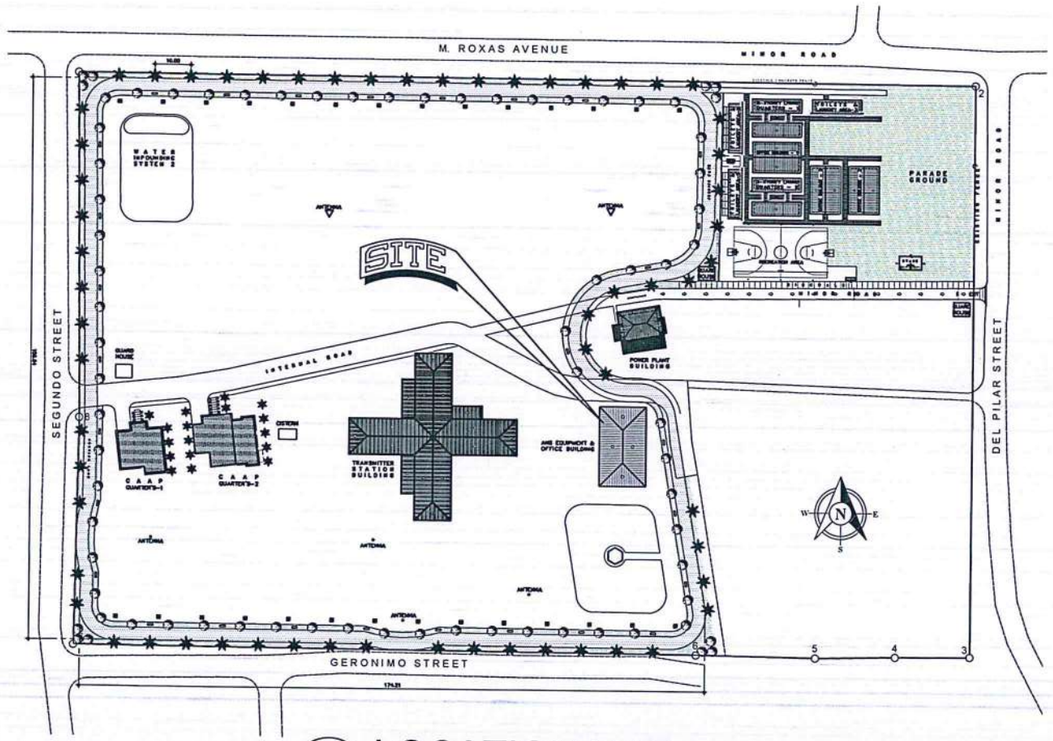
DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 23



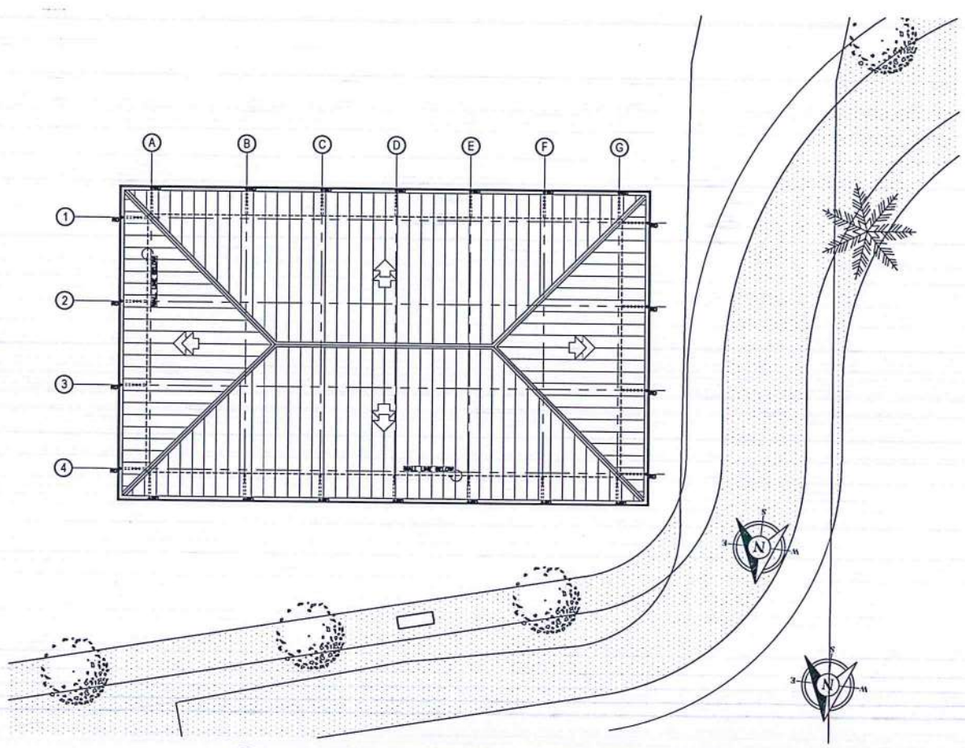
1 A-24/A-24 **PERSPECTIVE**
SCALE: NTS



2 A-24/A-24 **VICINITY MAP**
SCALE: NTS



3 A-24/A-24 **LOCATION MAP**
SCALE: 1 : 1000 M



4 A-24/A-24 **SITE DEVELOPMENT PLAN**
SCALE: 1 : 150 M

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INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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REVIEWED BY:
RAUL R. CRUCENA
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SUBMITTED BY:
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APPROVED:
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Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF ANS EQUIPMENT & OFFICE BUILDING)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- EXTERIOR PERSPECTIVE
- VICINITY MAP
- LOCATION MAP
- SITE DEVELOPMENT PLAN

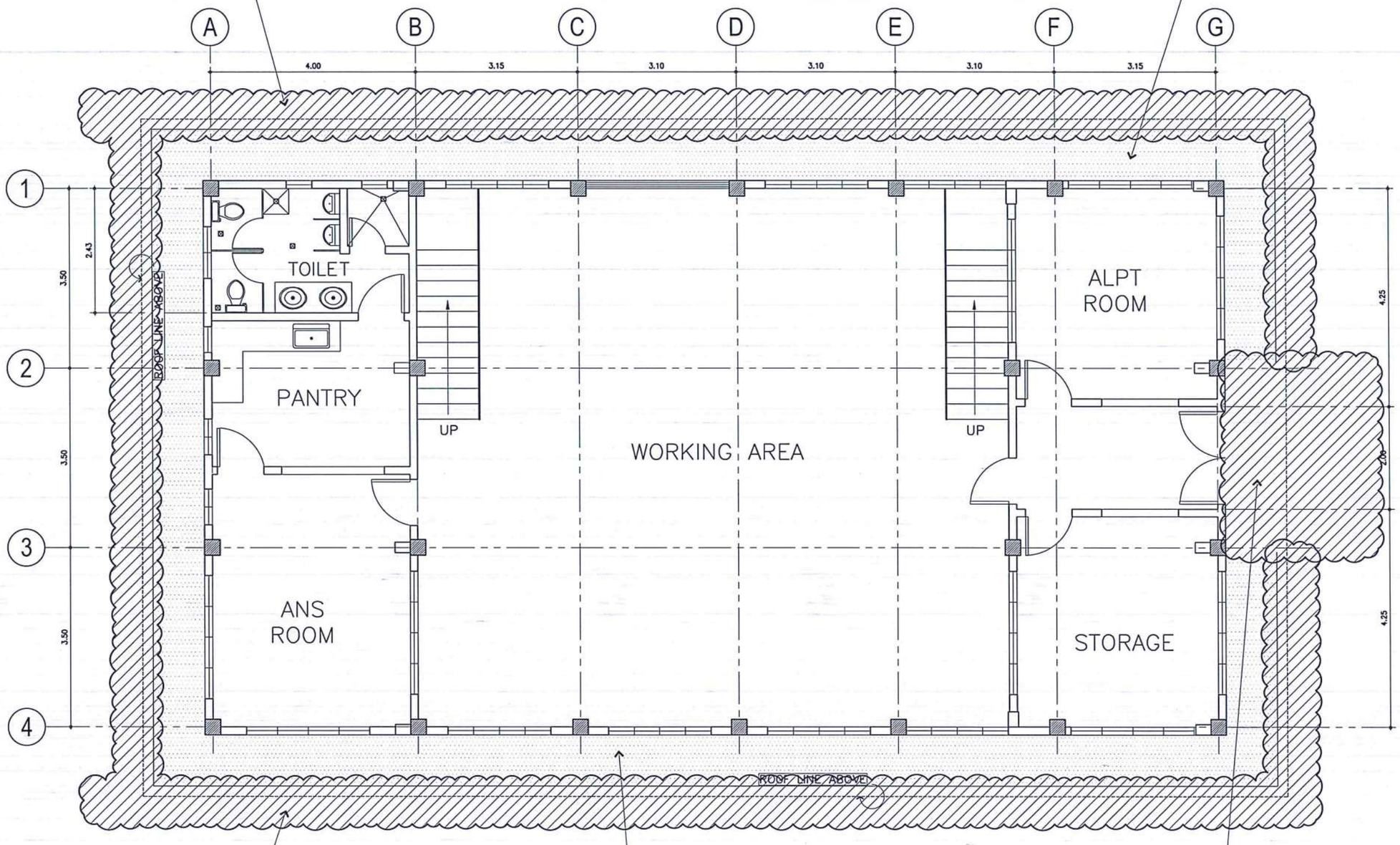
DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 24

PROVISION OF PERFORATED CONCRETE DRAINAGE (TRENCH CANAL) SEE DETAILS

LINEAR METER: 70.00

PROVISION OF CONCRETE PATHWALK (SEE DETAILS OF CONCRETE SLAB ON GRADE)

AREA: 61.7416 SQ.M



PROVISION OF PERFORATED CONCRETE DRAINAGE (TRENCH CANAL) SEE DETAILS

LINEAR METER: 70.00

PROVISION OF CONCRETE PATHWALK (SEE DETAILS OF CONCRETE SLAB ON GRADE)

AREA: 61.7416 SQ.M

PROVISION OF CONCRETE PAVEMENT (SEE DETAILS)

AREA: 10.73 SQ.M

1 / A-25 / A-25 GROUND FLOOR EXISTING & DEMOLITION PLAN

SCALE: 1:50 MTS.

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Department Manager III, AED-ADMS

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PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF ANS EQUIPMENT & OFFICE BUILDING)

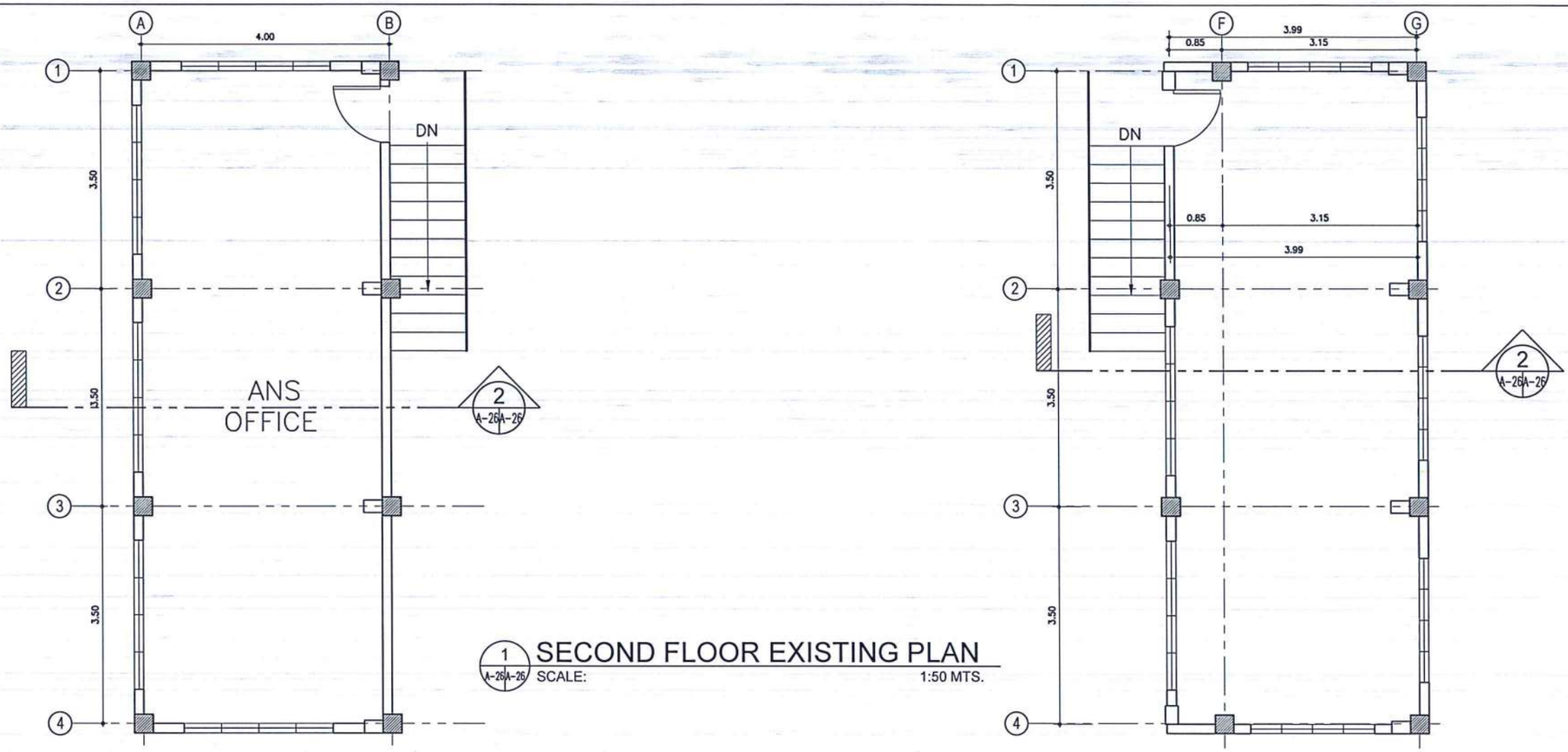
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

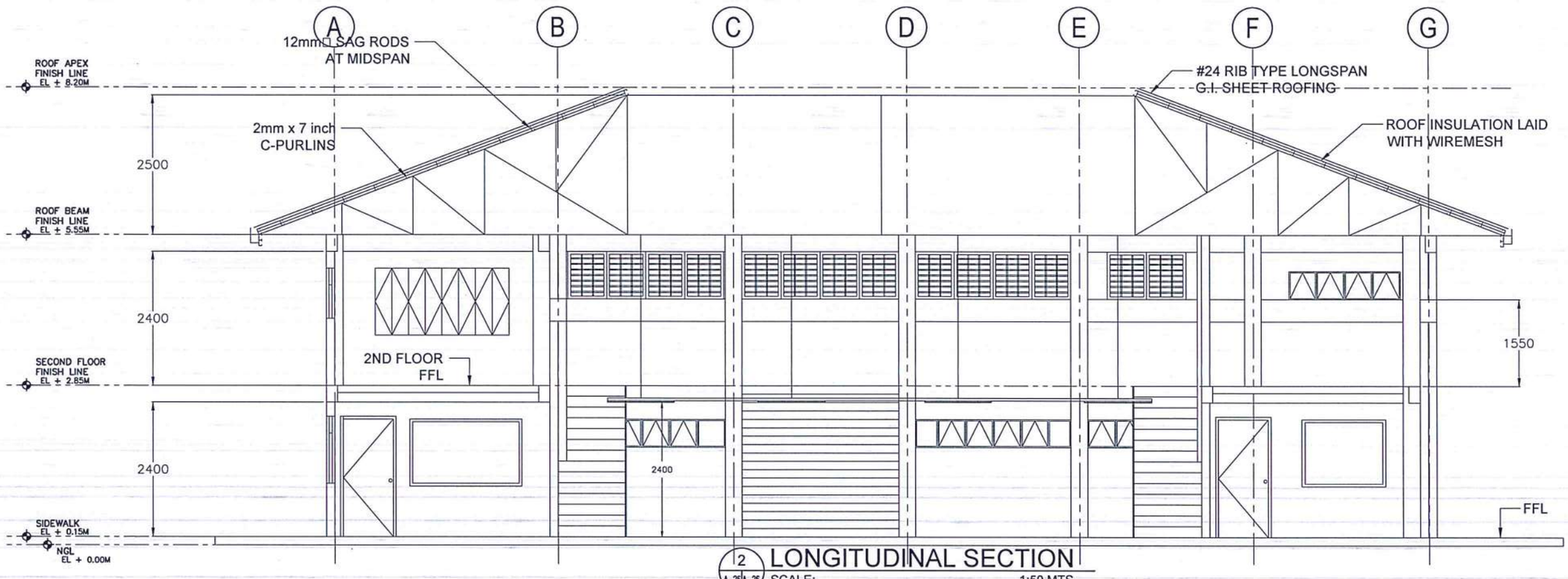
SHEET CONTENTS:

- GROUND FLOOR EXISTING & DEMOLITION PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 25



1 A-26 A-26 SECOND FLOOR EXISTING PLAN
SCALE: 1:50 MTS.



2 A-26 A-26 LONGITUDINAL SECTION
SCALE: 1:50 MTS.

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

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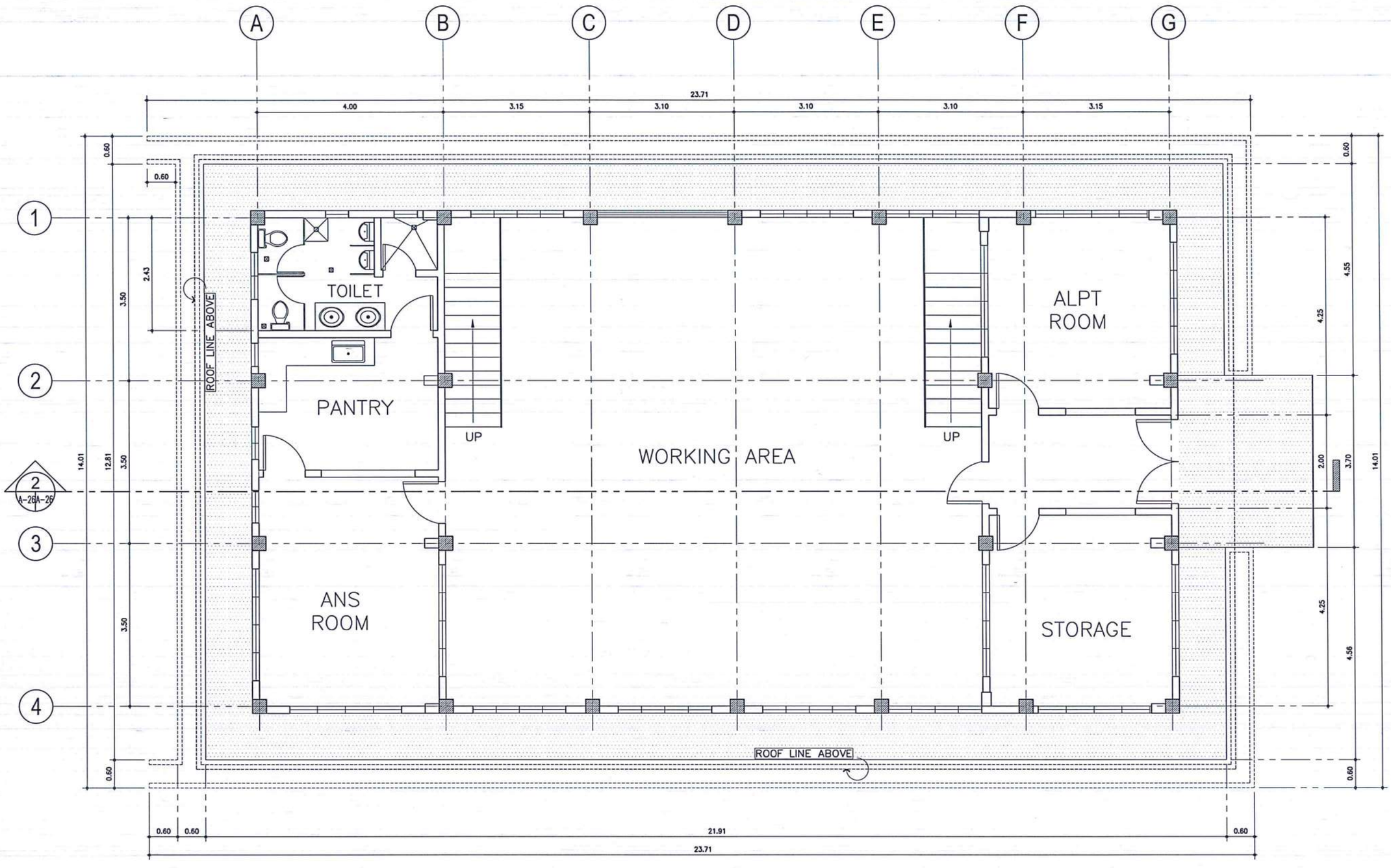
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- SECOND FLOOR EXISTING PLAN
- LONGITUDINAL SECTION

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 26



1 A-27/A-27 **GROUND FLOOR PROPOSED PLAN**

SCALE: 1:50 MTS.

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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Department Manager III, AED-ADMS

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ADG II, ADMS

APPROVED:
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Director General

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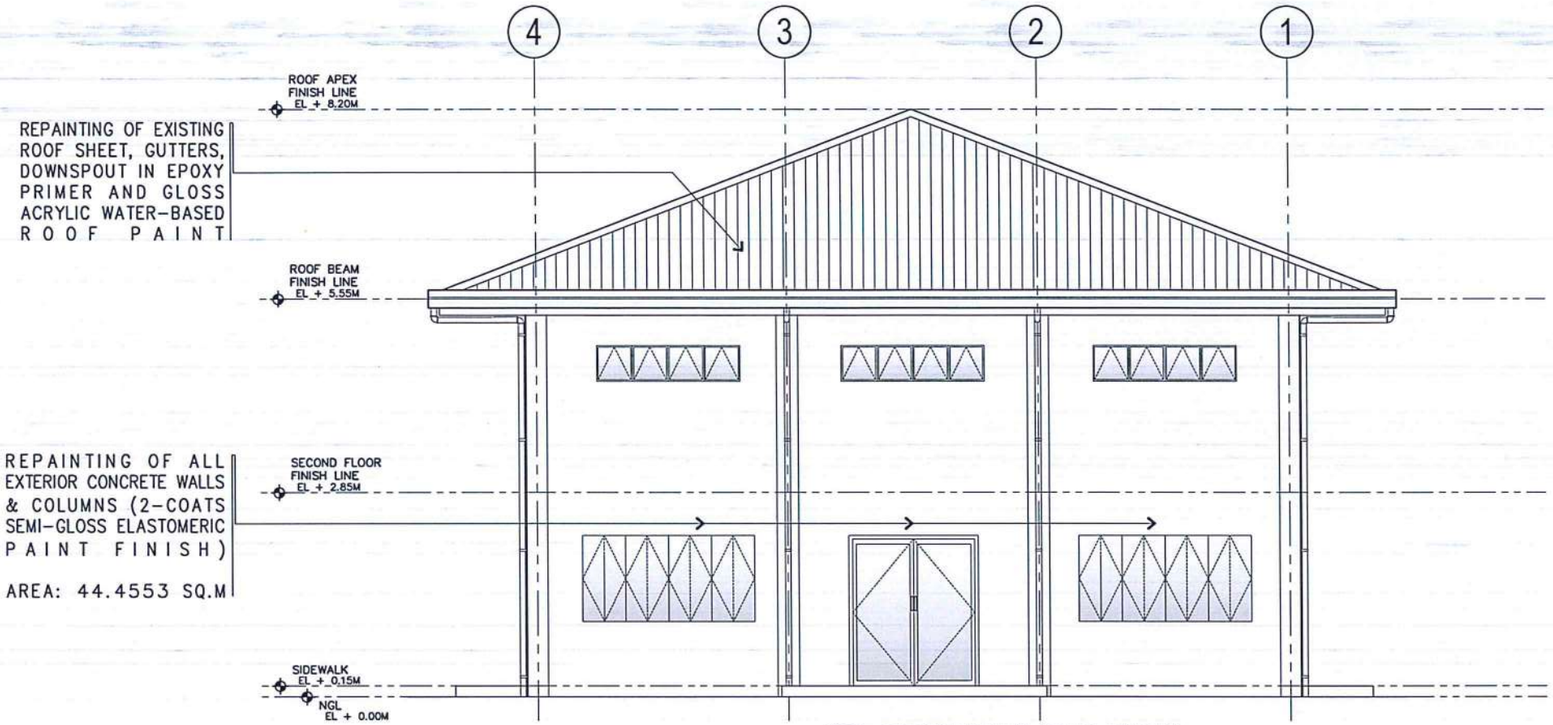
PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF ANS EQUIPMENT & OFFICE BUILDING)

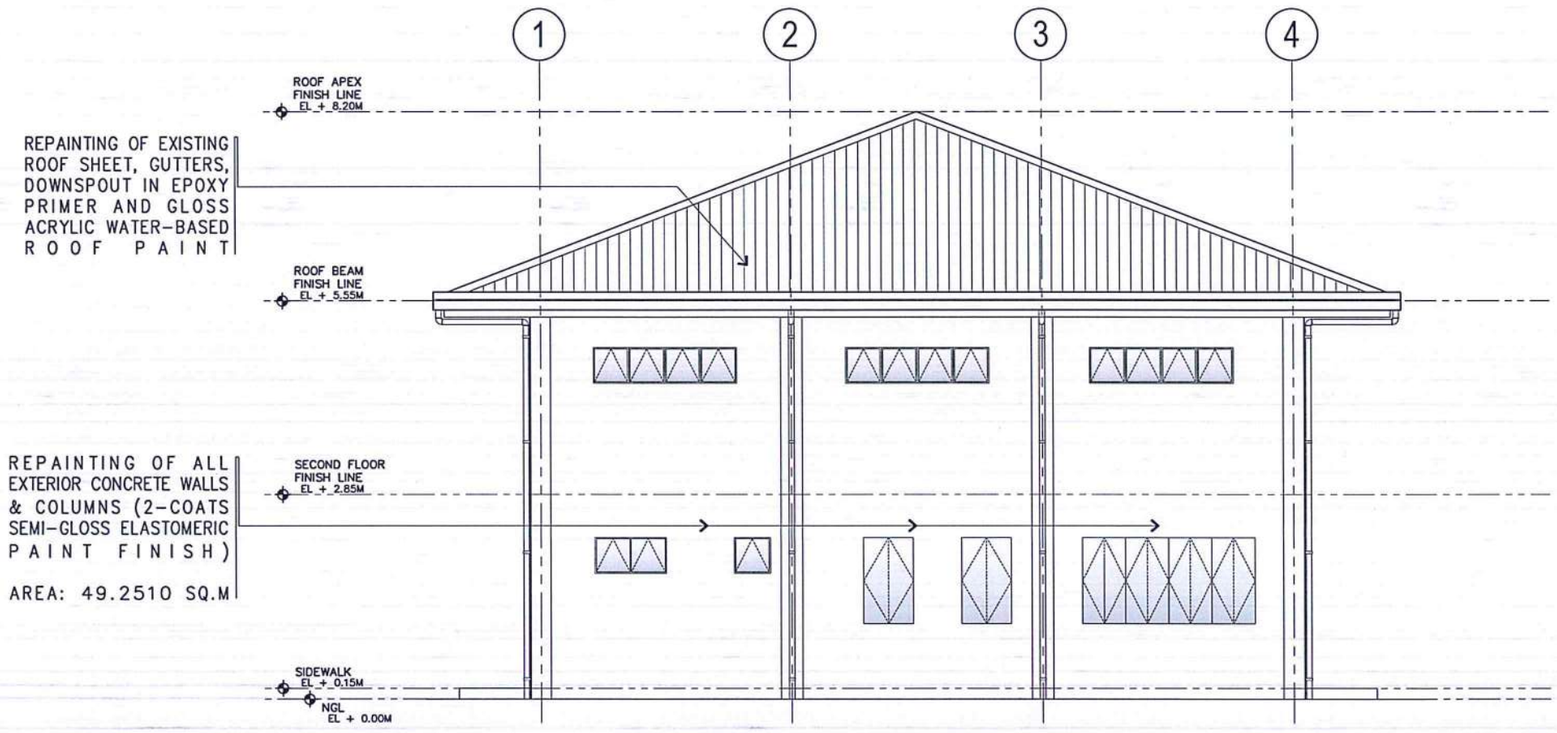
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- GROUND FLOOR PROPOSED PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 27



1 A-28/A-28 FRONT ELEVATION
SCALE: 1:50 MTS.



2 A-28/A-28 REAR ELEVATION
SCALE: 1:50 MTS.

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
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ADG II, ADMS

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Director General

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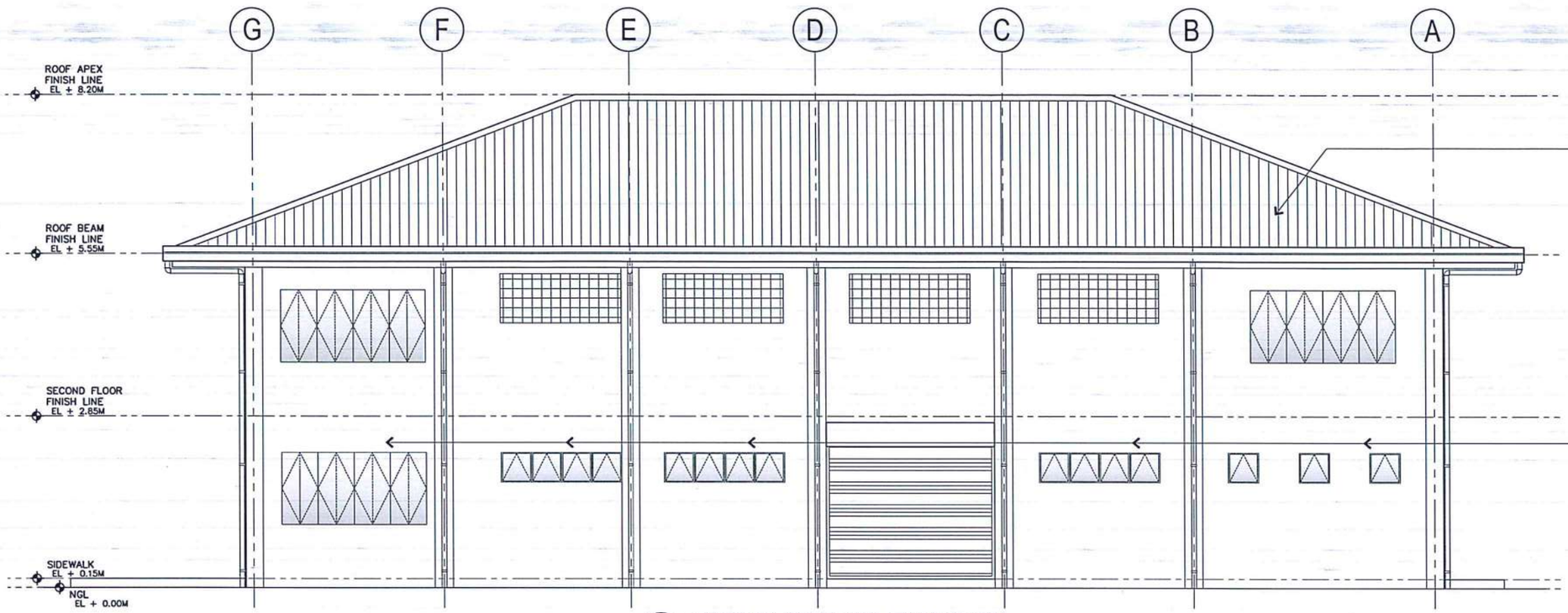
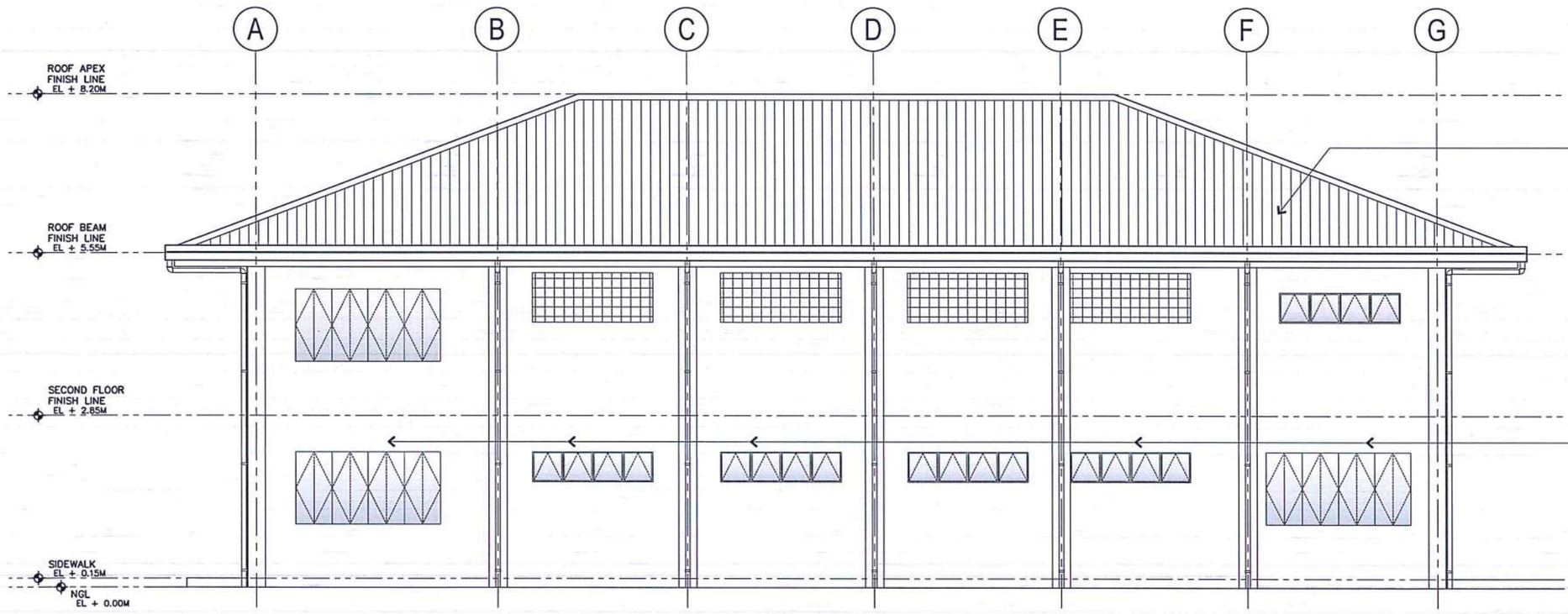
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- FRONT & REAR ELEVATION

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 28



1 A-29/A-29 RIGHT-SIDE ELEVATION
SCALE: 1:50 MTS.



2 A-29/A-29 LEFT-SIDE ELEVATION
SCALE: 1:50 MTS.

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Director General

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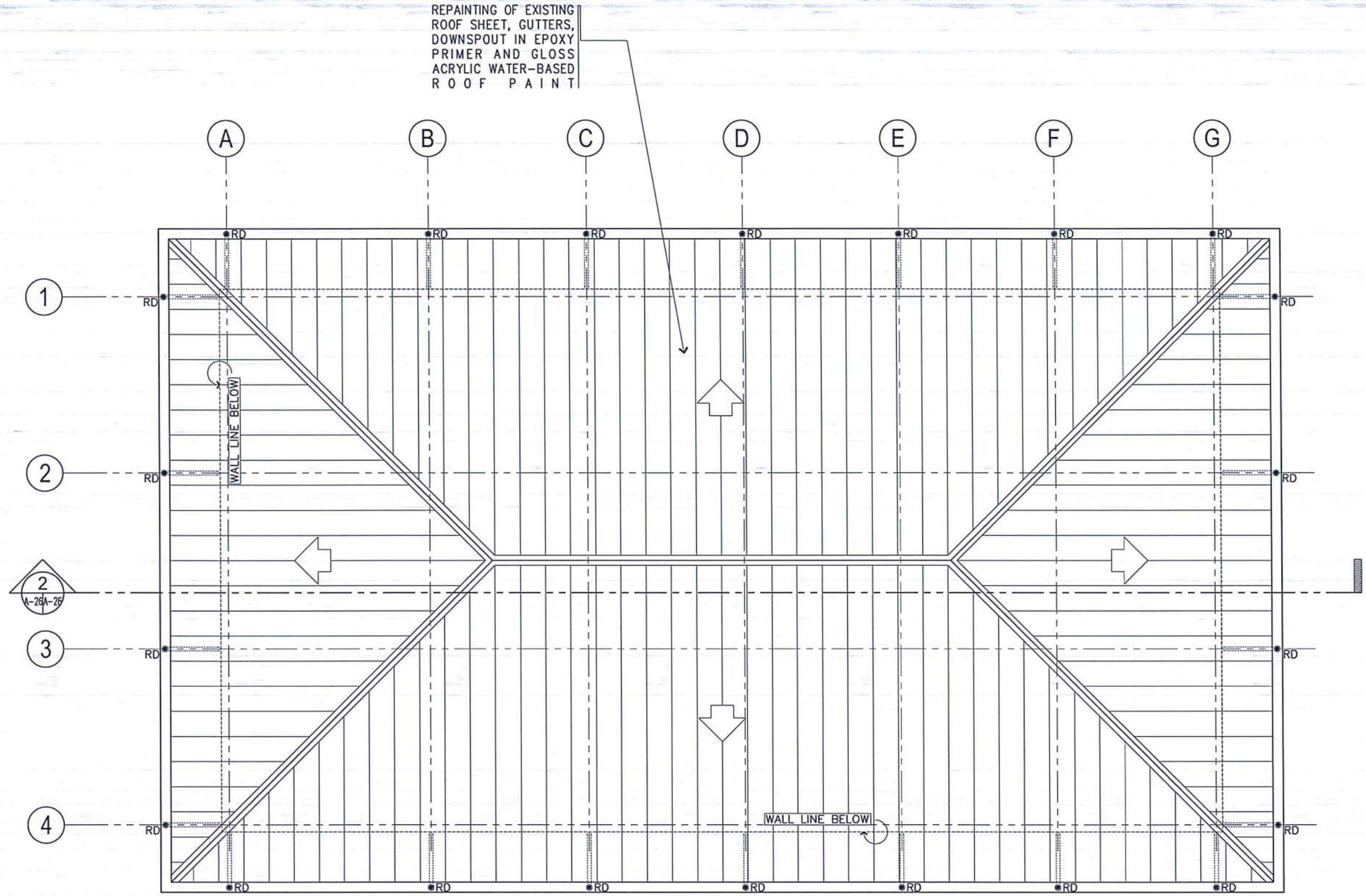
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- RIGHT & LEFT-SIDE ELEVATION

DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 29



1 A-29AA-29A **EXISTING ROOF PLAN**

SCALE: 1:50 MTS.

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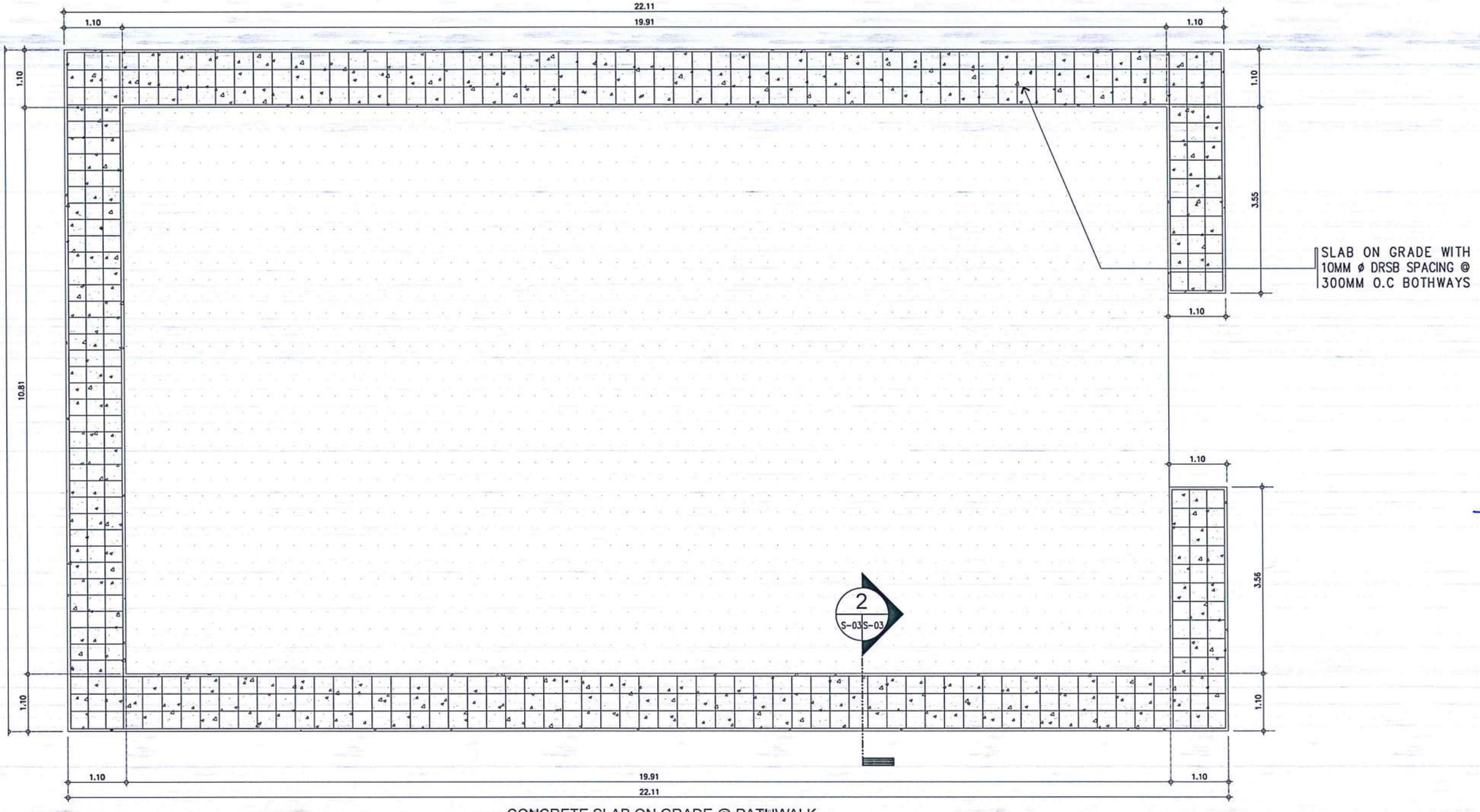
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

- EXISTING ROOF PLAN

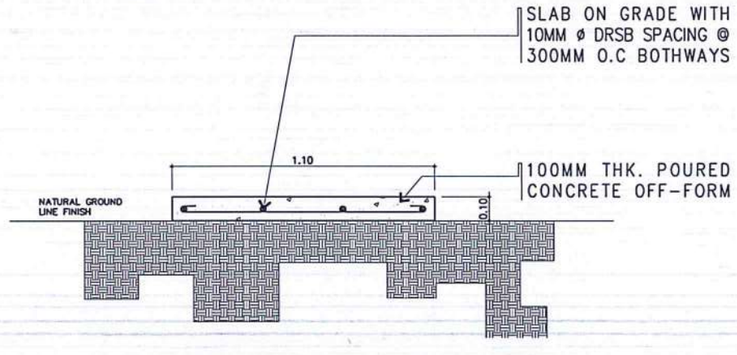
DRAWING SCALE:	SHEET NO:
AS SHOWN	A - 29A



CONCRETE SLAB ON GRADE @ PATHWALK

1 / S-03 S-03 **PLAN**

SCALE: 1:50 MTS.



CONCRETE SLAB ON GRADE @ PATHWALK

2 / S-03 S-03 **SECTION**

SCALE: 1:15 MTS.

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Department Manager III, AED-ADMS

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ADG II, ADMS

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Director General

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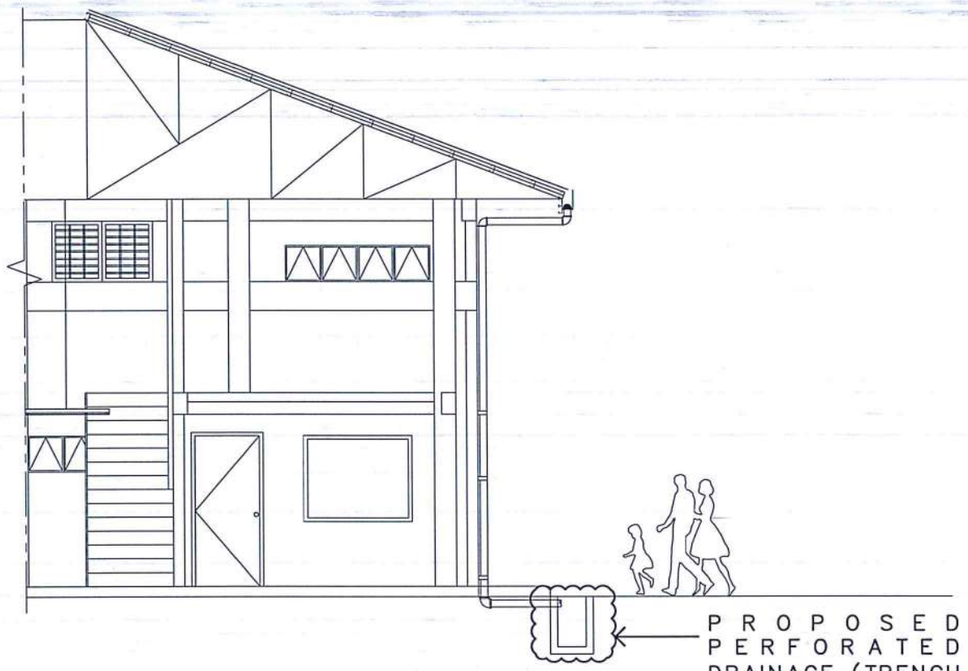
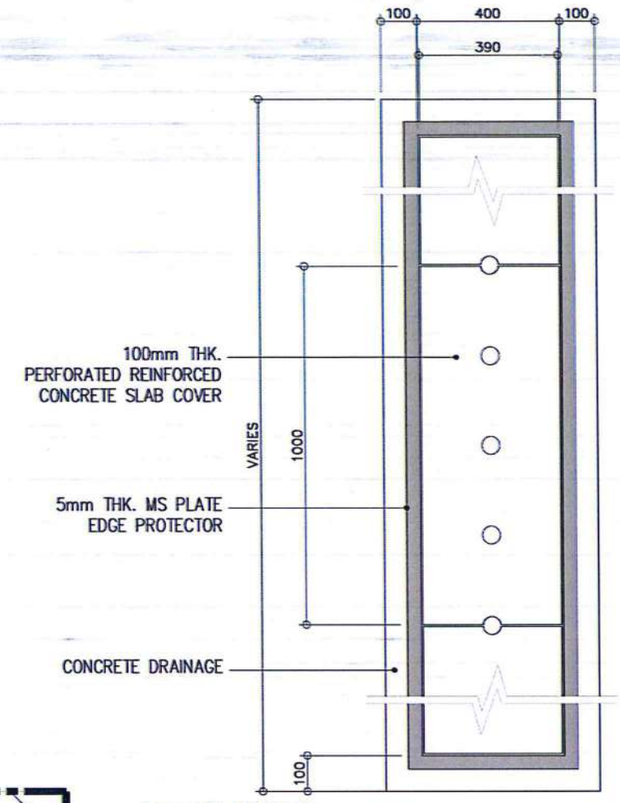
TAGUIG CITY

SHEET CONTENTS:

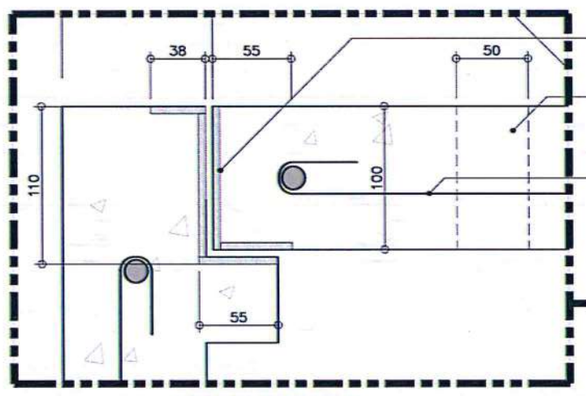
- LEAN CONCRETE DETAILS
- CONCRETE PAVEMENT DETAILS @ DRIVEWAY

DRAWING SCALE:	SHEET NO:
AS SHOWN	S - 03

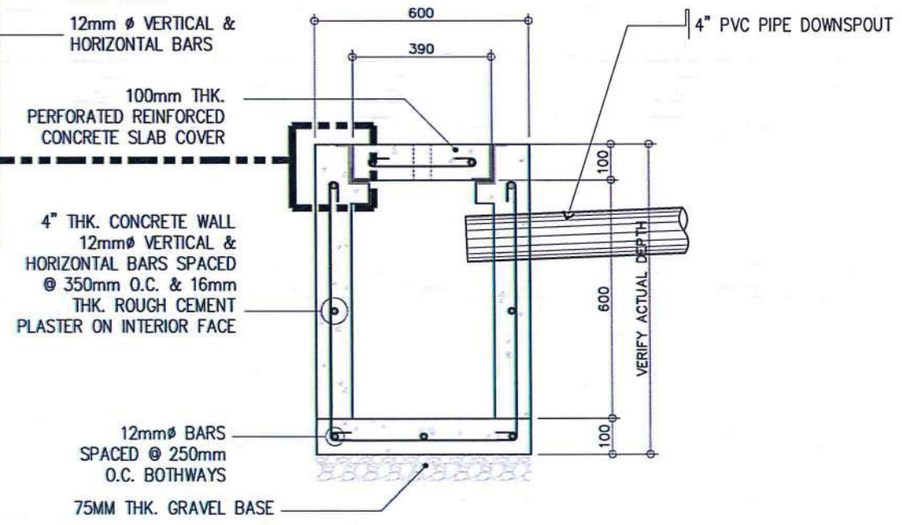




PLAN



SPOT DETAIL



SECTION

1 S-04 PERFORATED DRAINAGE DETAILS

SCALE: 1:10 MTS.

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	RCJ
CHECKED BY:	SJD

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
ADG II-ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF ANS EQUIPMENT & OFFICE BUILDING)

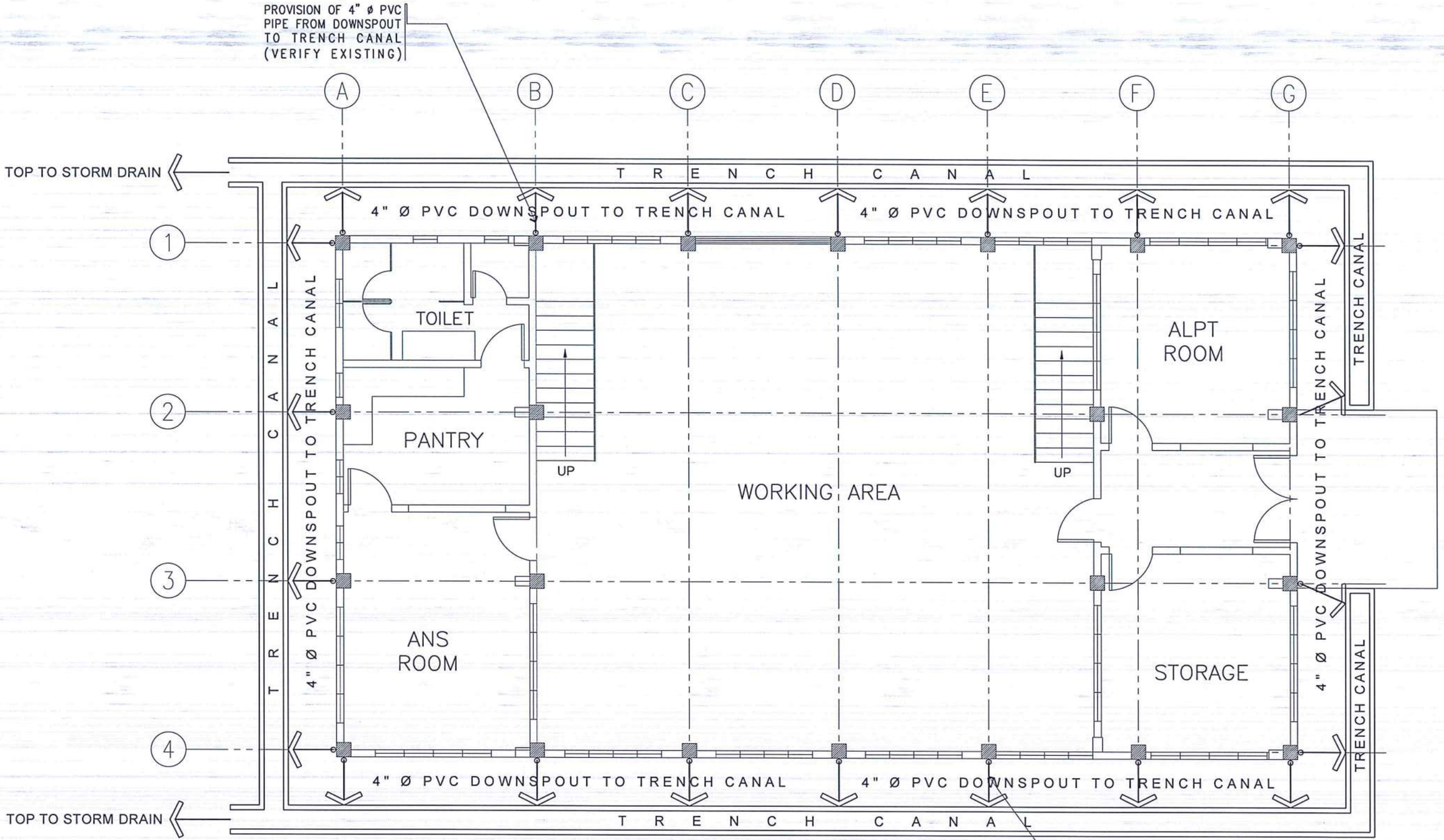
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

- PERFORATED DRAINAGE DETAILS

DRAWING SCALE:	SHEET NO:
AS SHOWN	S - 04



STORM DRAINAGE SYSTEM LAYOUT
GROUND FLOOR PLAN
1 / P-01 | P-01
SCALE: 1:50 MTS.

REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	RCJ	
CHECKED BY:	SJD	

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

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LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

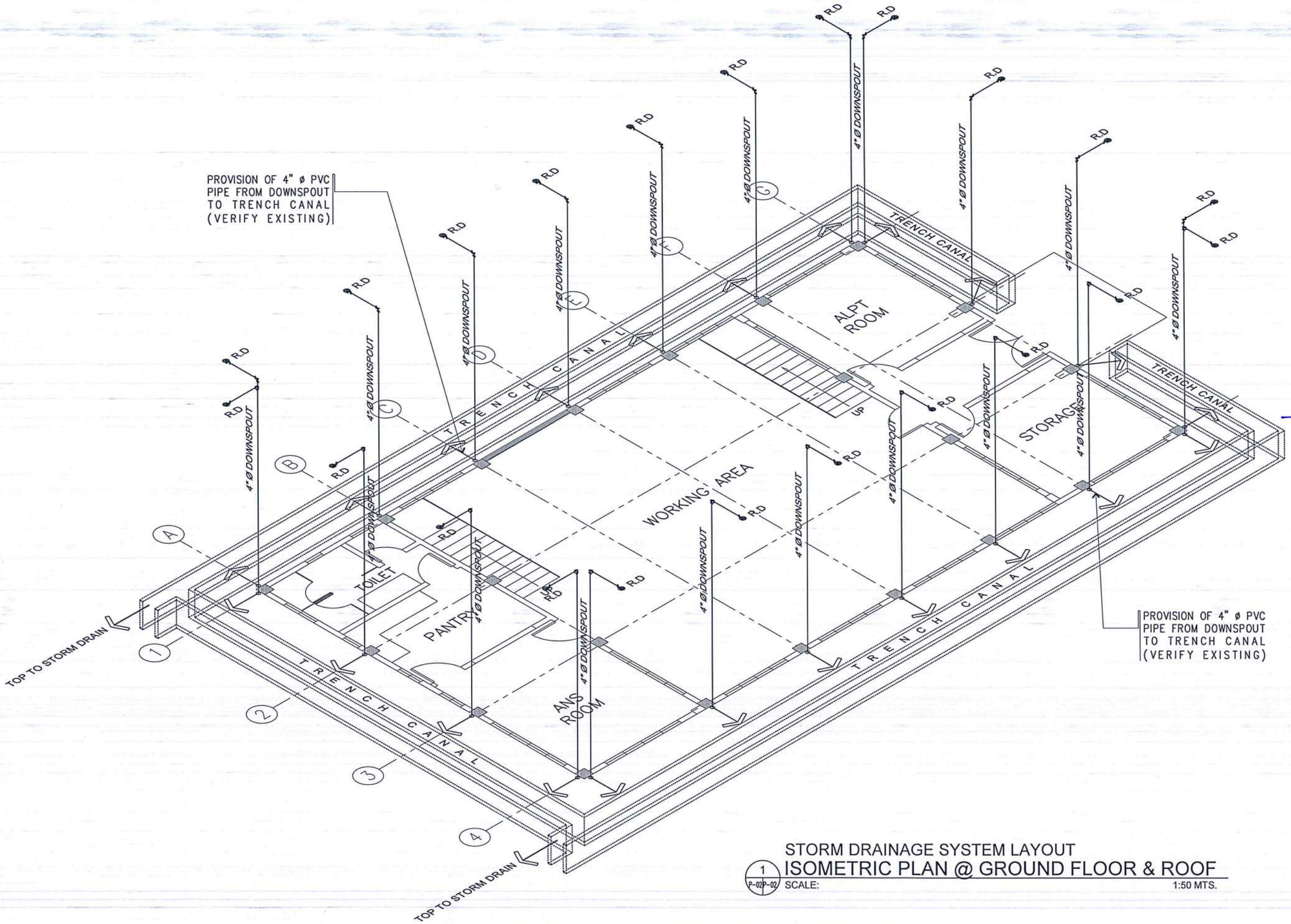
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF ANS EQUIPMENT & OFFICE BUILDING)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- GROUND FLOOR STORM DRAINAGE SYSTEM LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	P - 01



STORM DRAINAGE SYSTEM LAYOUT

1 / P-02 — ISOMETRIC PLAN @ GROUND FLOOR & ROOF

SCALE: 1:50 MTS.

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
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CHECKED BY:	SJD

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
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Department Manager III, AED-ADMS

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LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

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CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

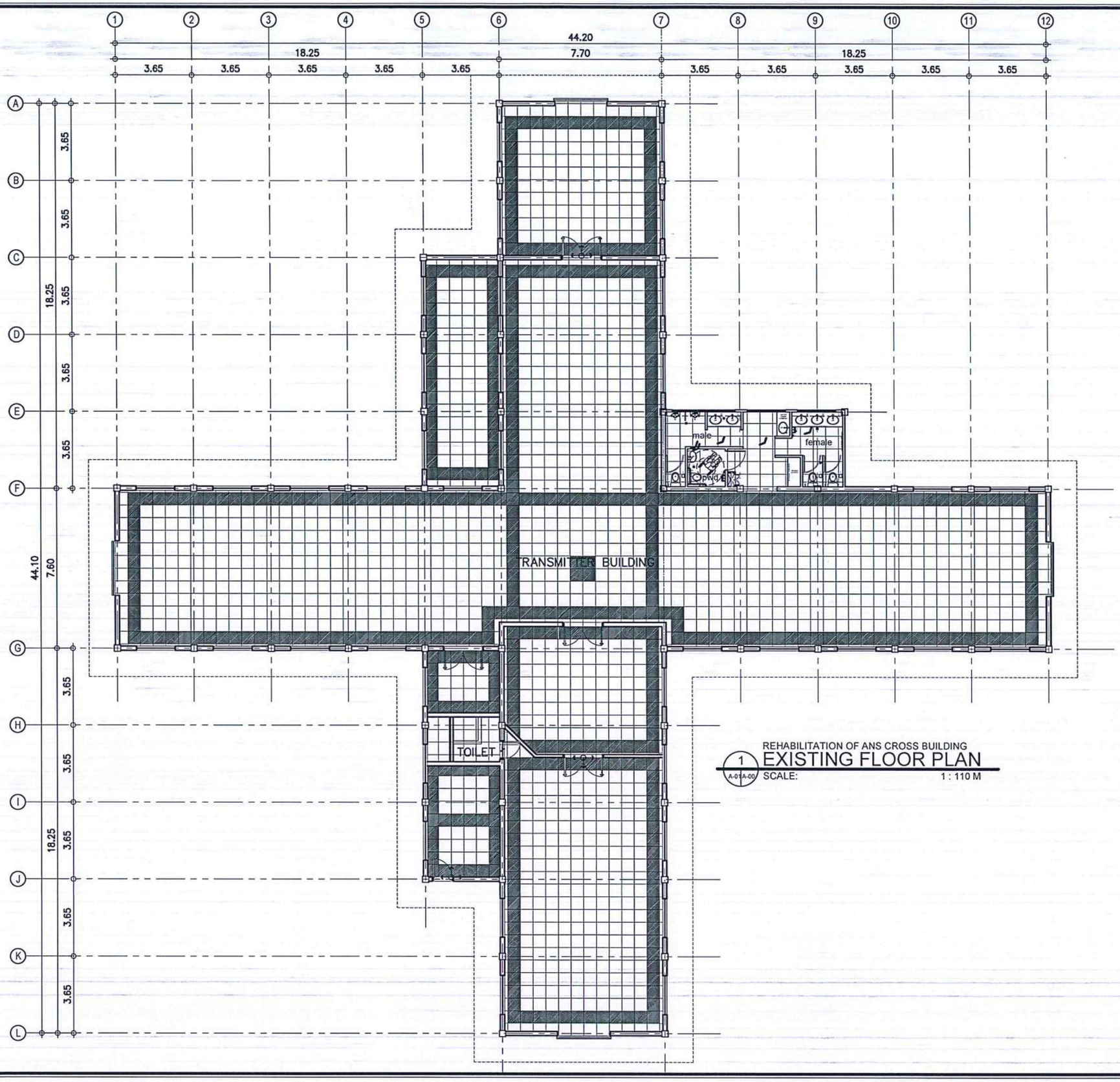
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF ANS EQUIPMENT & OFFICE BUILDING)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- GROUND FLOOR & ROOF STORM DRAINAGE SYSTEM LAYOUT (ISOMETRIC PLAN)

DRAWING SCALE:	SHEET NO:
AS SHOWN	P - 02



REHABILITATION OF ANS CROSS BUILDING

1 / A-01A-00 EXISTING FLOOR PLAN

SCALE: 1 : 110 M

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

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ARNEL F. BORLADO
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LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

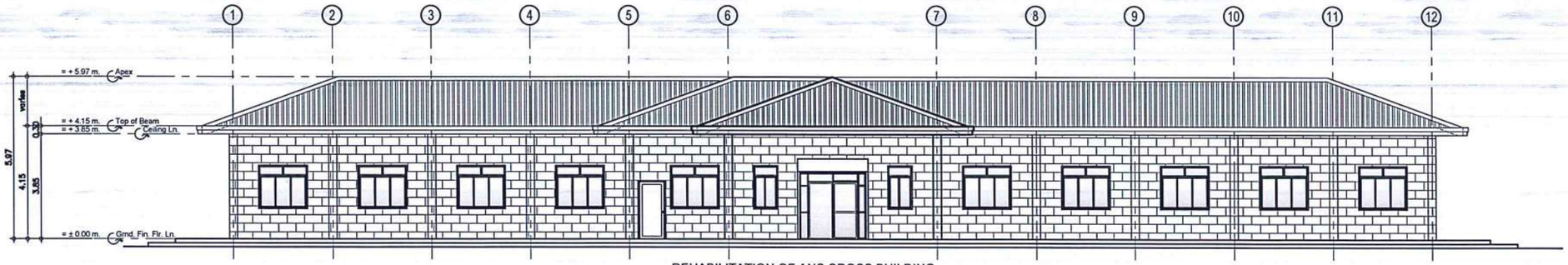
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:

EXISTING FLOOR PLAN
(ANS CROSS BUILDING)

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	30



REHABILITATION OF ANS CROSS BUILDING

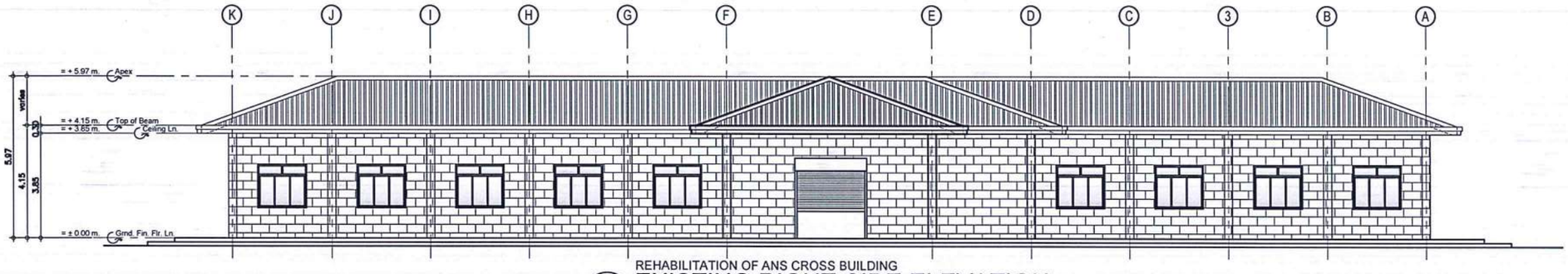
1 / A-03A-00 EXISTING FRONT ELEVATION

SCALE: 1 : 110 M

REHABILITATION OF ANS CROSS BUILDING

2 / A-03A-00 EXISTING REAR ELEVATION

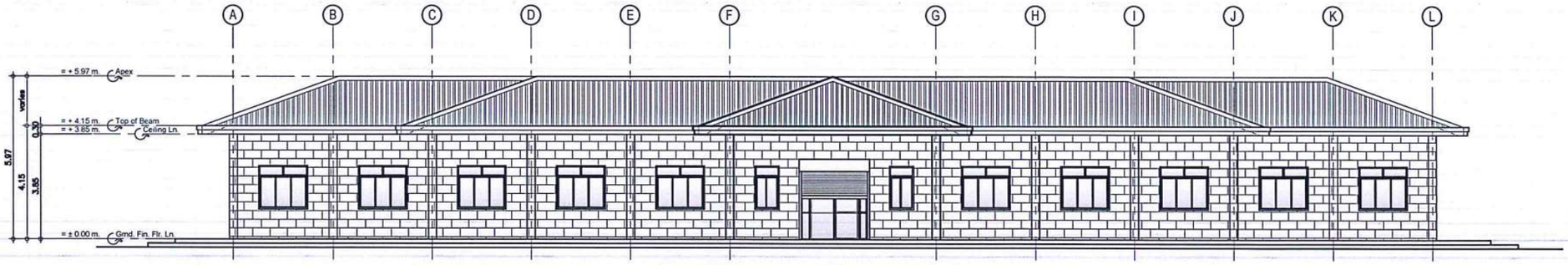
SCALE: 1 : 110 M



REHABILITATION OF ANS CROSS BUILDING

3 / A-03A-00 EXISTING RIGHT-SIDE ELEVATION

SCALE: 1 : 110 M



REHABILITATION OF ANS CROSS BUILDING

4 / A-03A-00 EXISTING LEFT-SIDE ELEVATION

SCALE: 1 : 110 M

DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:

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Division Chief II, IDDD - ADMS

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RECOMMENDED APPROVAL:

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Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

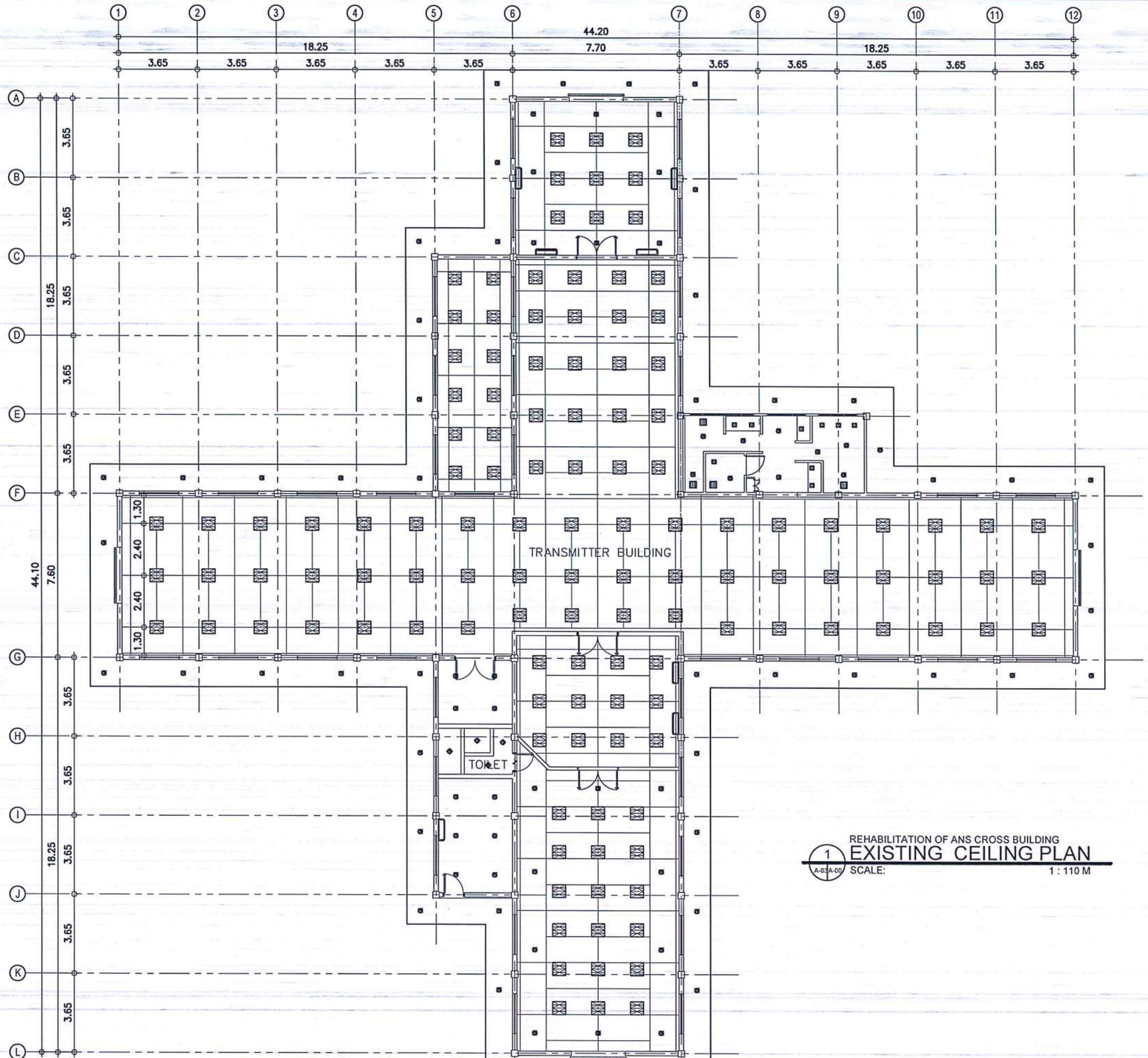
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:

EXISTING FRONT ELEVATION
EXISTING REAR ELEVATION
EXISTING RIGHT-SIDE ELEVATION
EXISTING LEFT-SIDE ELEVATION

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	31



REHABILITATION OF ANS CROSS BUILDING

1 / A-03A-00 EXISTING CEILING PLAN

SCALE: 1 : 110 M

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

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ARNEL F. BORLADO
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RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

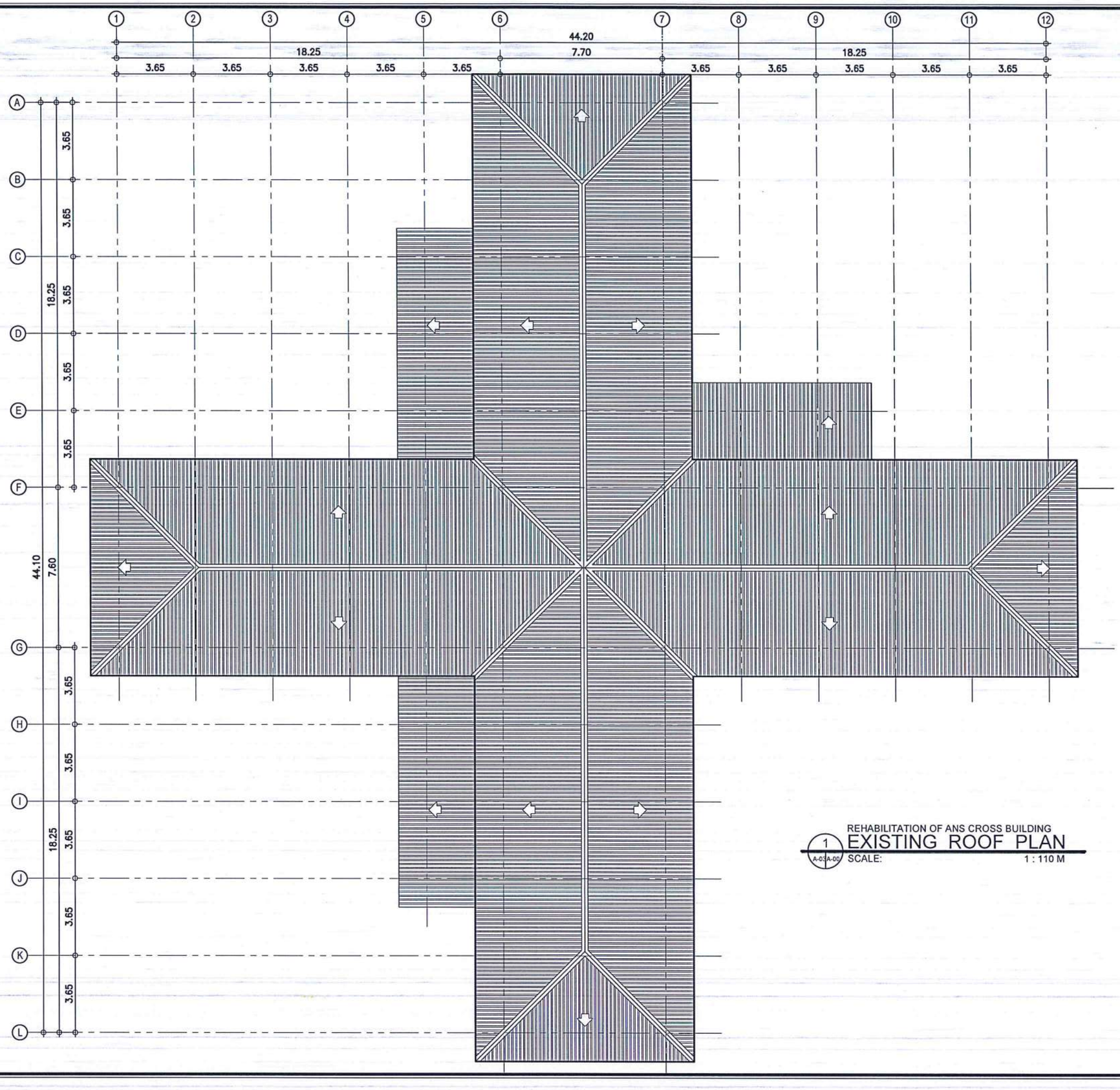
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
EXISTING CEILING PLAN

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	32



REHABILITATION OF ANS CROSS BUILDING

1 / A-03 A-00 EXISTING ROOF PLAN

SCALE: 1 : 110 M

CAA PHILIPPINES

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

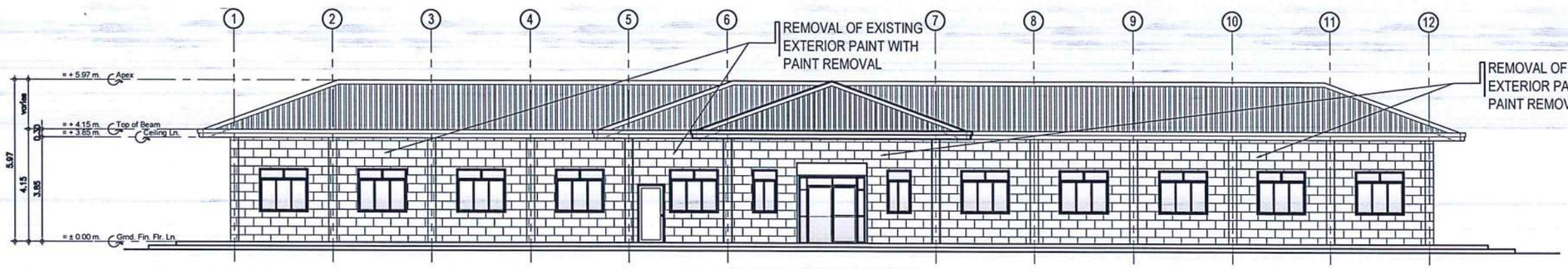
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:

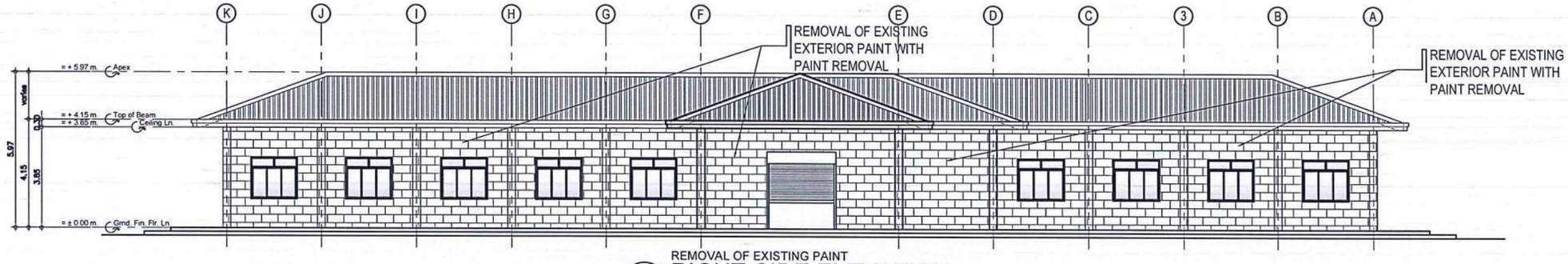
EXISTING ROOF PLAN

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	33

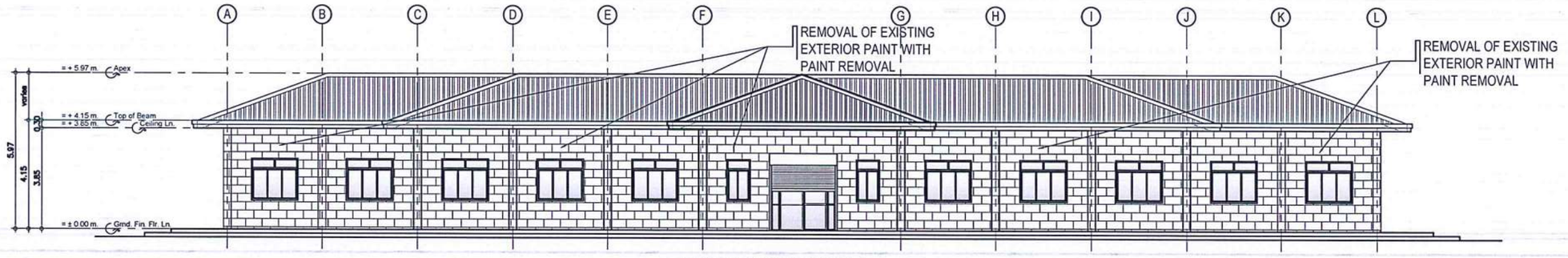


REMOVAL OF EXISTING PAINT
1 A-05/A-00 **FRONT ELEVATION**
SCALE: 1 : 110 M

REMOVAL OF EXISTING PAINT
2 A-05/A-00 **REAR ELEVATION**
SCALE: 1 : 110 M



REMOVAL OF EXISTING PAINT
3 A-05/A-00 **RIGHT-SIDE ELEVATION**
SCALE: 1 : 110 M



REMOVAL OF EXISTING PAINT
4 A-05/A-00 **LEFT-SIDE ELEVATION**
SCALE: 1 : 110 M

CAA PHILIPPINES
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

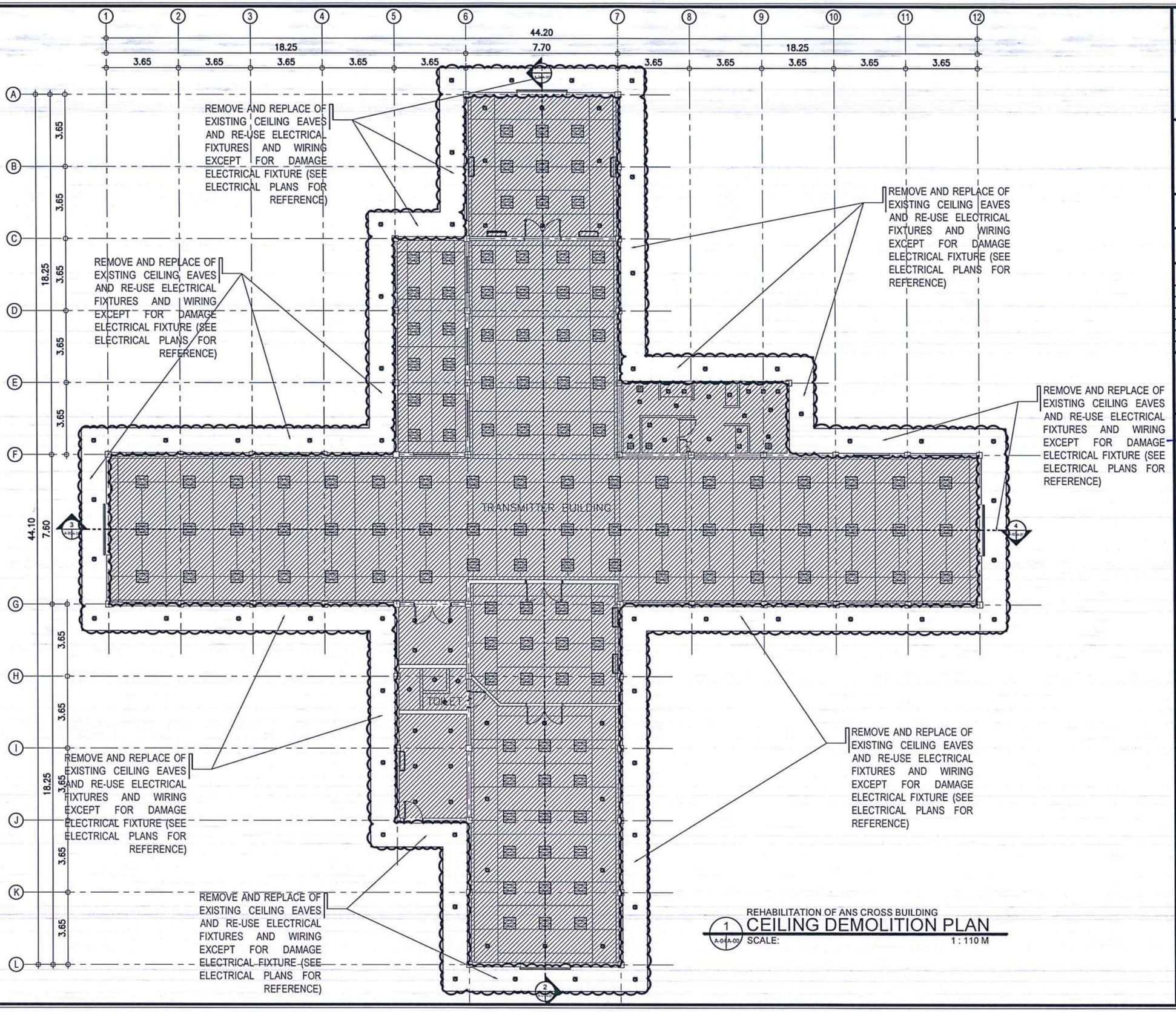
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
PAINT REMOVAL;
FRONT ELEVATION
REAR ELEVATION
RIGHT-SIDE ELEVATION
LEFT-SIDE ELEVATION

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	34



REHABILITATION OF ANS CROSS BUILDING

1 A-04A-00 **CEILING DEMOLITION PLAN**

SCALE: 1 : 110 M

CAA PHILIPPINES

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
MIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

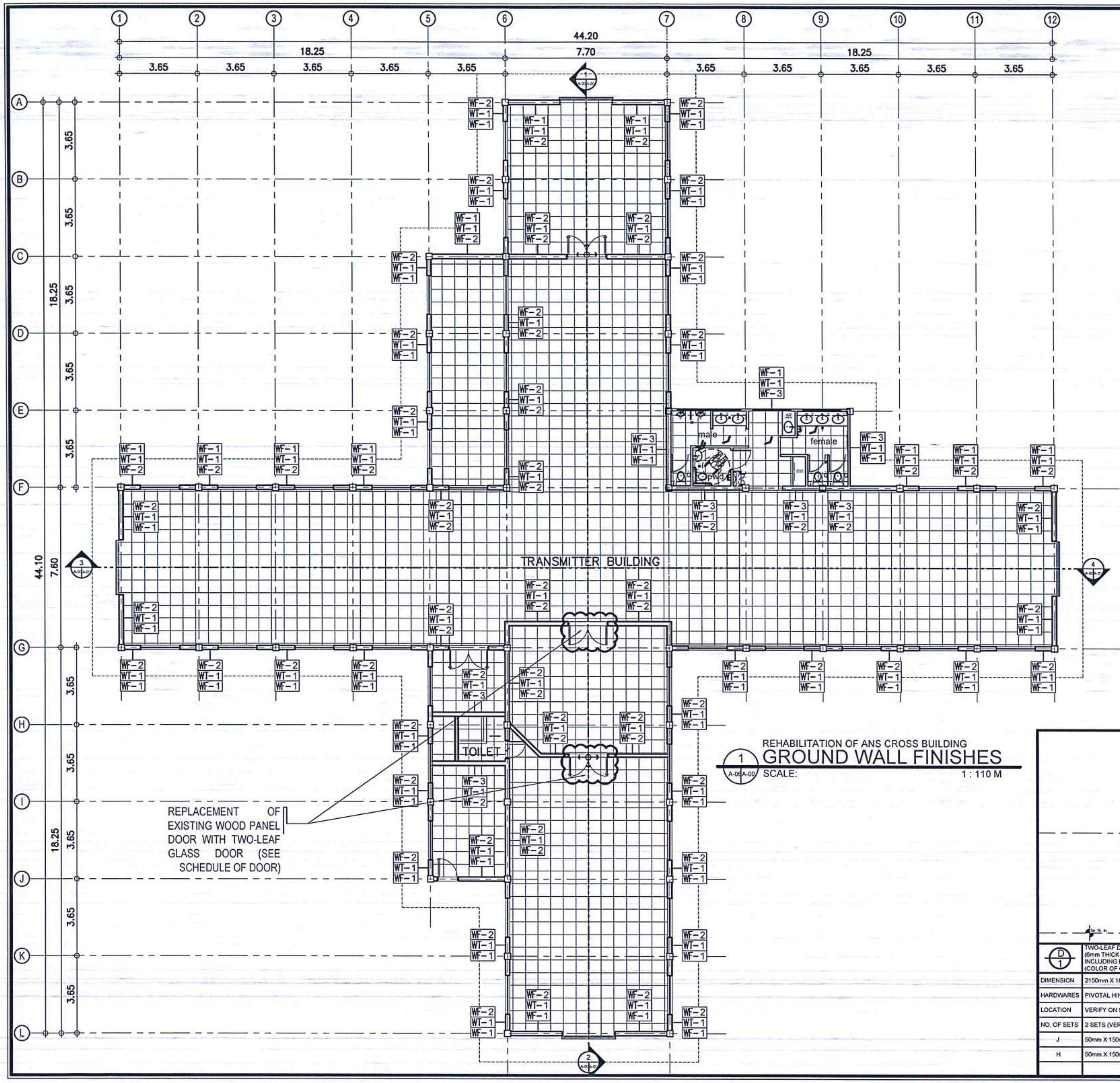
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:

GROUND WALL FINISHES (ANS CROSS BUILDING)

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	35



REHABILITATION OF ANS CROSS BUILDING

1 GROUND WALL FINISHES

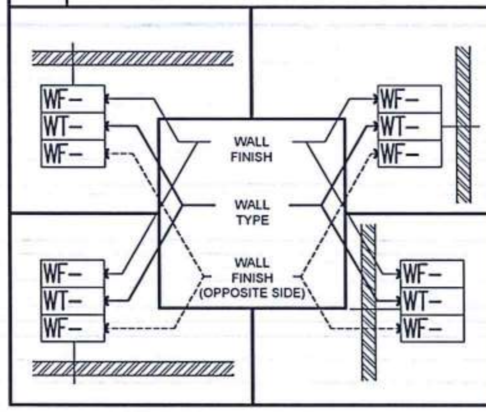
SCALE: 1 : 110 M

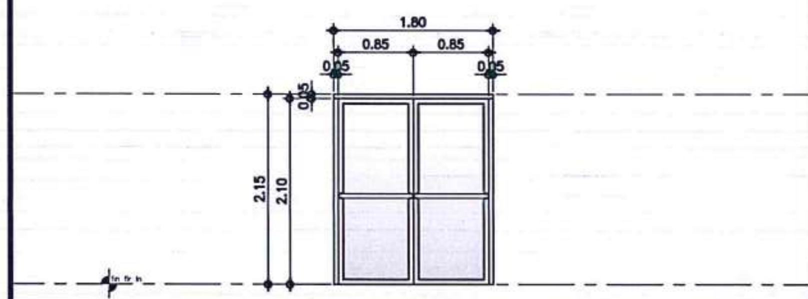
LEGEND

TAG	WALL FINISHES
WF-1	PAINTING OF EXISTING EXTERIOR WALL WITH SKIM COAT AND PAINTED WITH LATEX PAINT
WF-2	RE-PAINTING OF EXISTING INTERIOR WALL WITH SEMI-GLOSS LATEX PAINT
WF-3	EXISTING INTERIOR WALL WITH EXISTING WALL TILE FINISHED

LEGEND

TAG	WALL TYPE
WT-1	EXISTING CONCRETE WALL





D 1	TWO-LEAF DOUBLE SWING GLASS DOOR ON POWDER COATED ALUMINUM FRAME (6mm THICK TEMPERED CLEAR GLASS FOR DOOR) INCLUDING PIVOTAL HINGES, LOCKSET AND GRAB BAR (COLOR OF GLASS & FRAME; VERIFY TO ARCHITECT)
DIMENSION	2150mm X 1800mm
HARDWARES	PIVOTAL HINGES, CHROME LOCKSET, GRAB BAR
LOCATION	VERIFY ON SITE
NO. OF SETS	2 SETS (VERIFY ON SITE)
J	50mm X 150mm ALUMINUM FRAME
H	50mm X 150mm ALUMINUM FRAME

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
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RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

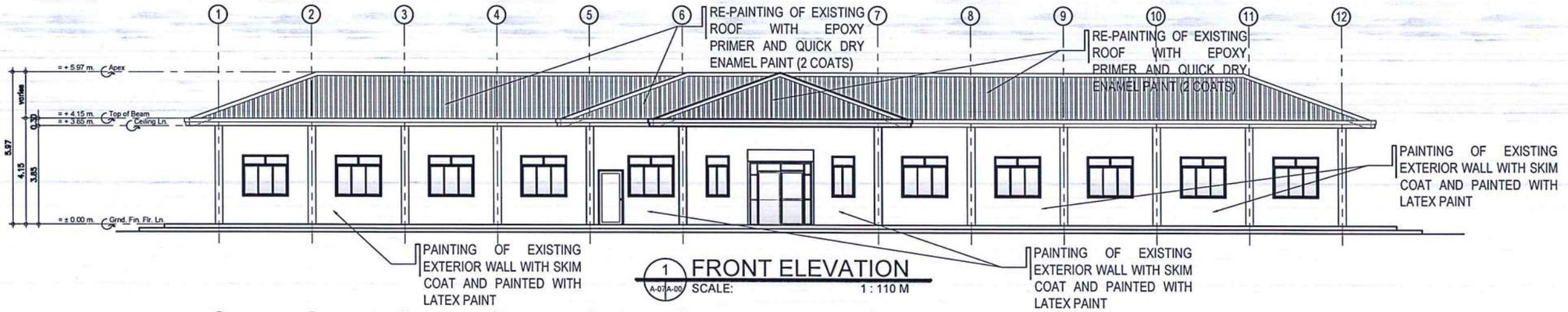
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

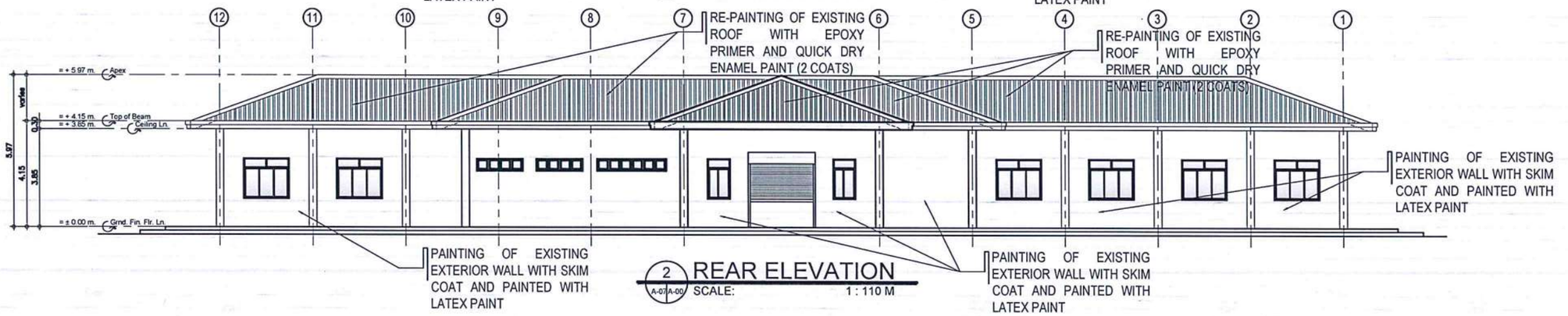
SHEET CONTENTS:

GROUND WALL FINISHES (ANS CROSS BUILDING)

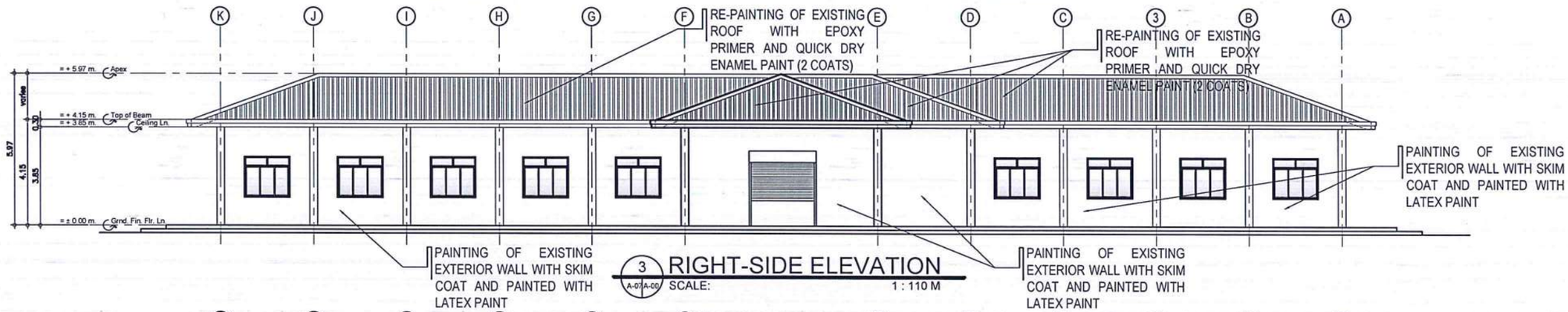
DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	36



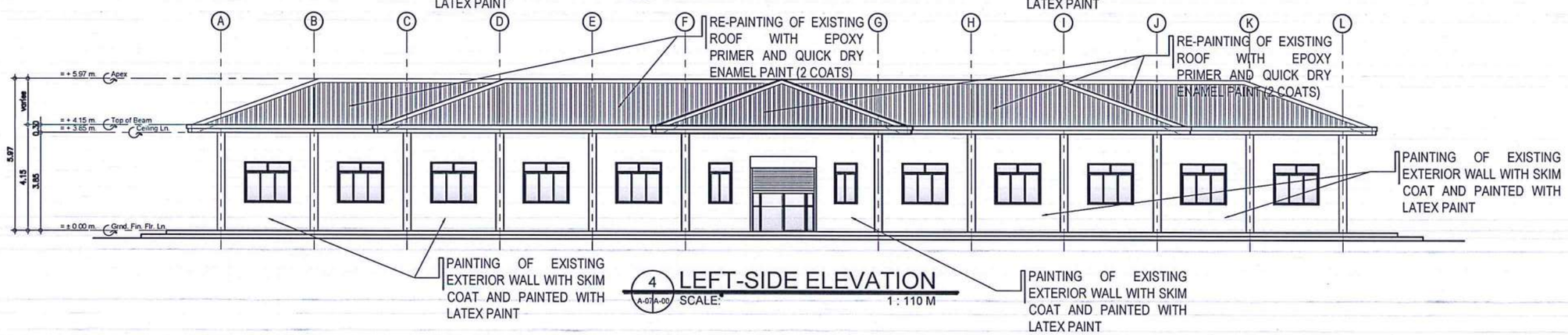
1 A-07/A-00 **FRONT ELEVATION**
SCALE: 1 : 110 M



2 A-07/A-00 **REAR ELEVATION**
SCALE: 1 : 110 M



3 A-07/A-00 **RIGHT-SIDE ELEVATION**
SCALE: 1 : 110 M



4 A-07/A-00 **LEFT-SIDE ELEVATION**
SCALE: 1 : 110 M

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
9th ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

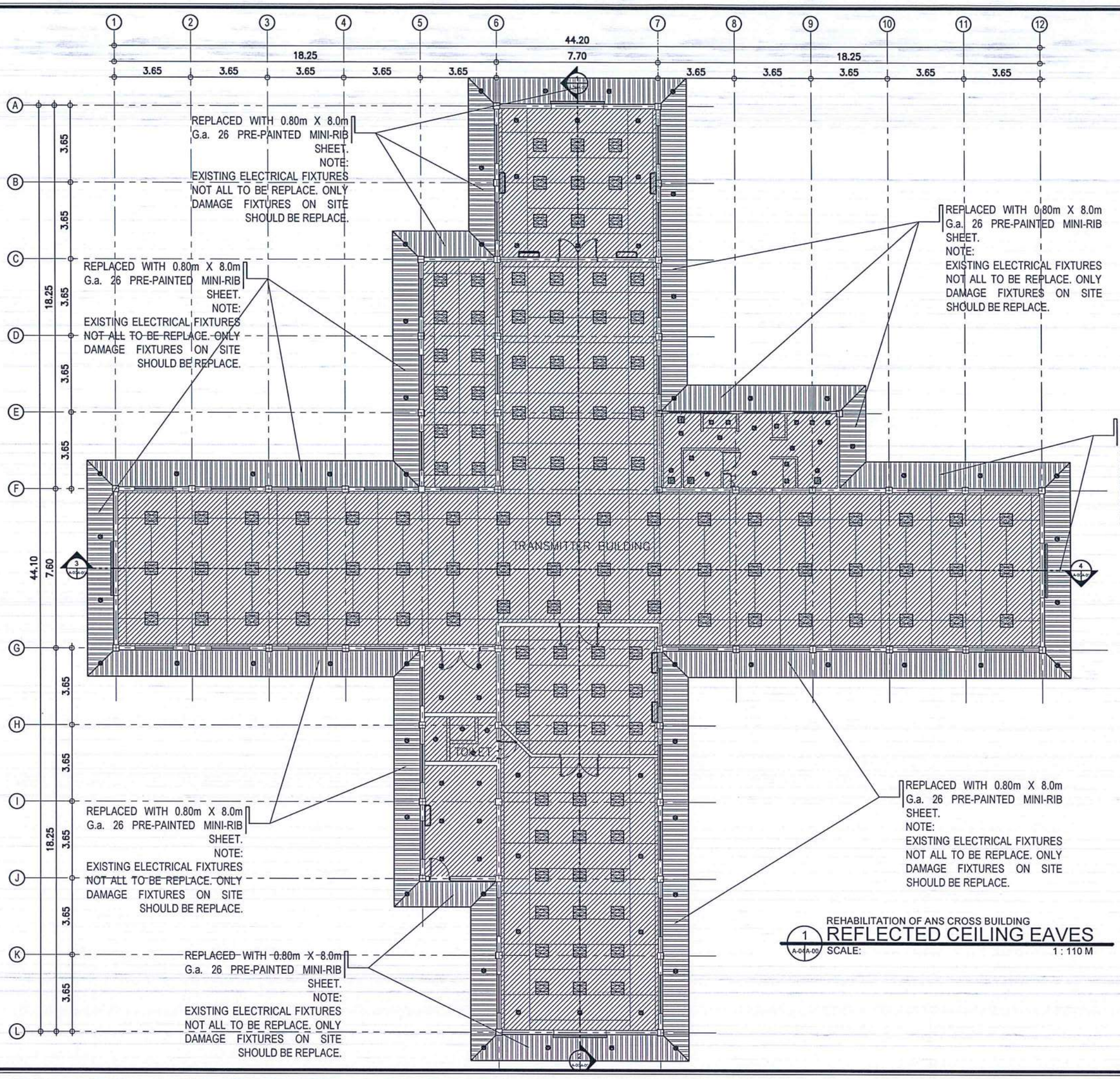
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
PROPOSED FRONT ELEVATION
PROPOSED REAR ELEVATION
PROPOSED RIGHT-SIDE ELEVATION
PROPOSED LEFT-SIDE ELEVATION

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	37



REHABILITATION OF ANS CROSS BUILDING

1 A-04A-00 **REFLECTED CEILING EAVES**

SCALE: 1 : 110 M

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
MIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

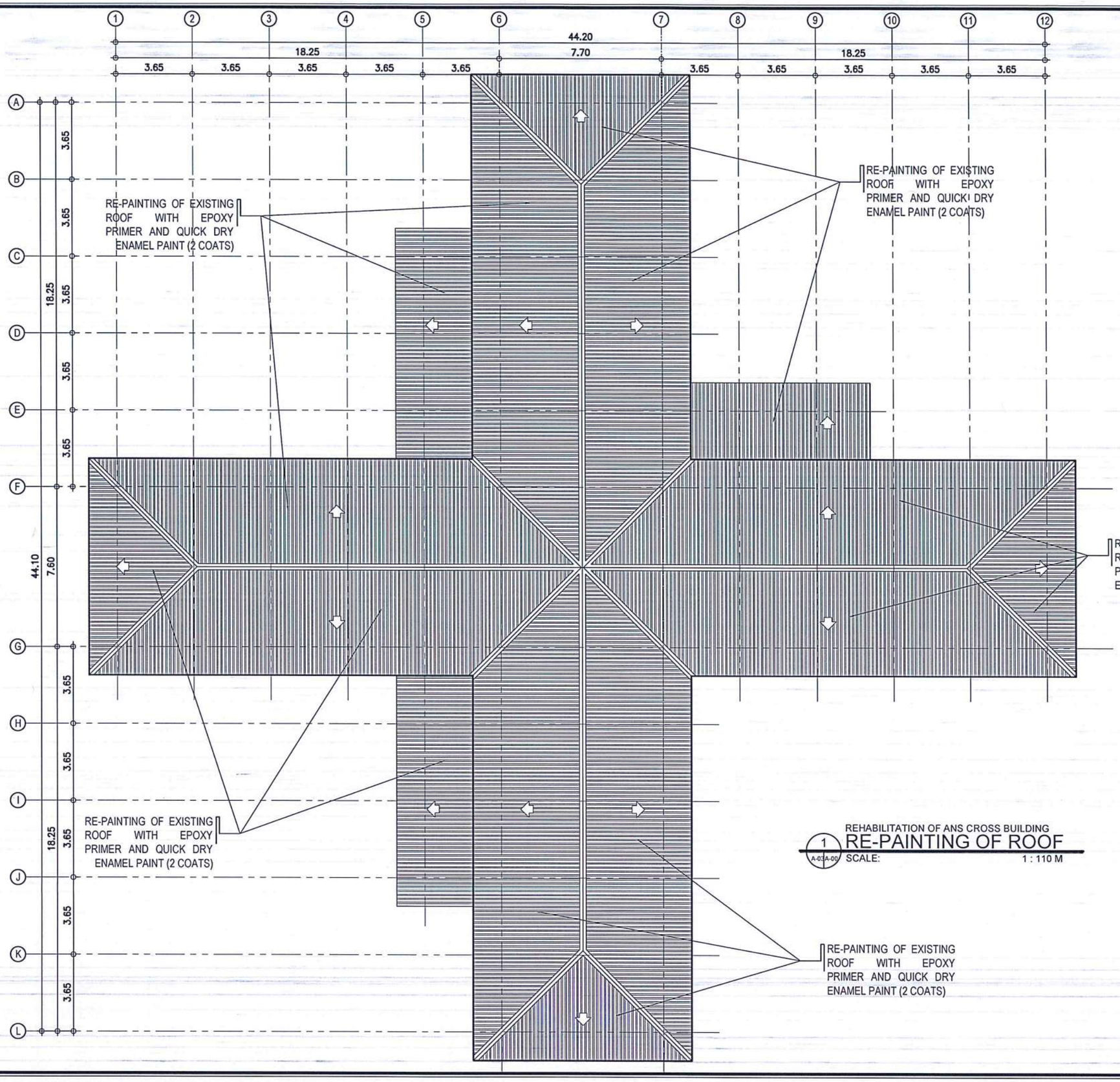
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
REFLECTED CEILING EAVES

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	38



REHABILITATION OF ANS CROSS BUILDING

1 / A-03A-00 RE-PAINTING OF ROOF

SCALE: 1 : 110 M

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
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REVIEWED BY:

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Division Chief III, IDDD - ADMS

SUBMITTED BY:

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Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:

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Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

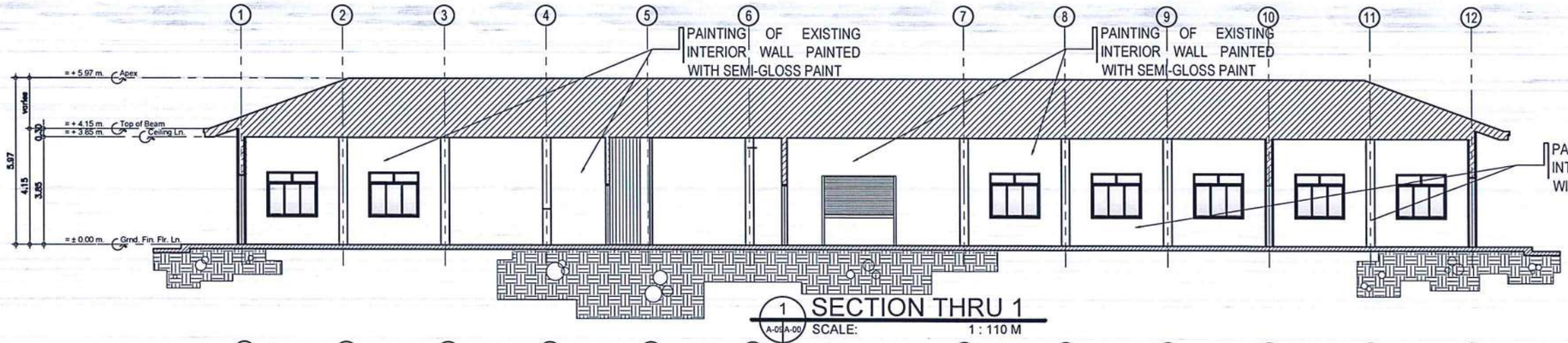
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

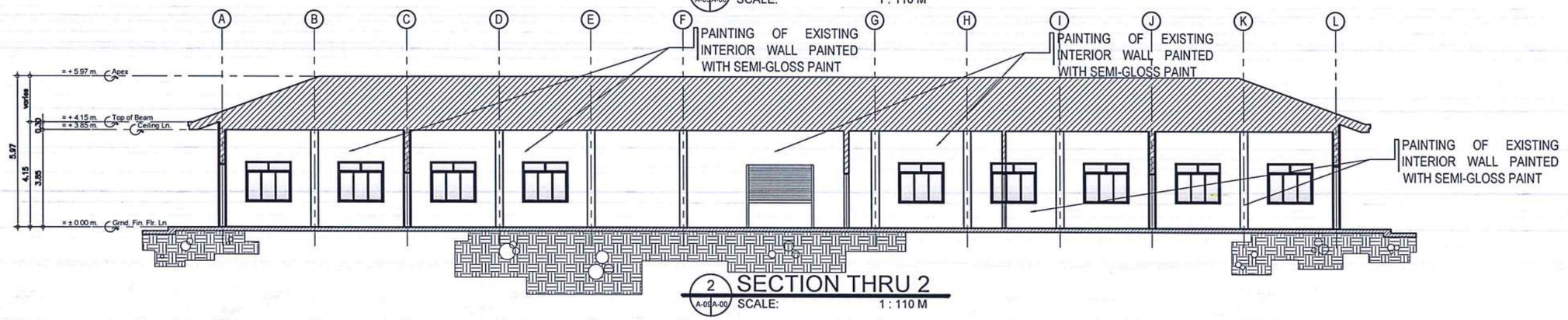
SHEET CONTENTS:

RE-PAINTING OF ROOF

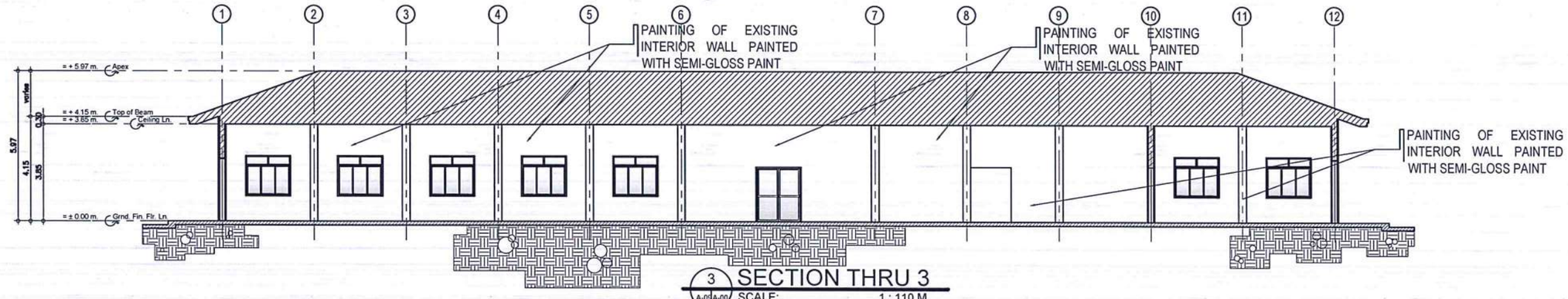
DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	39



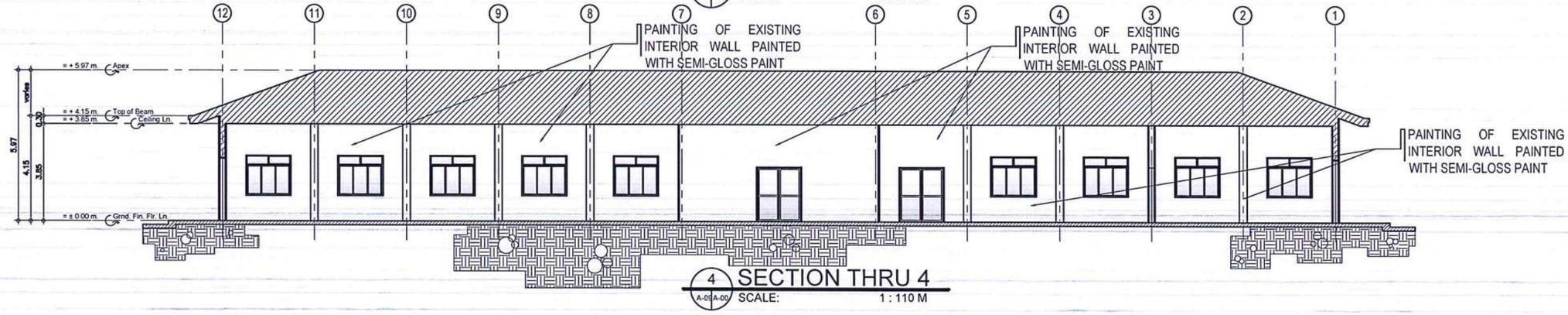
1 A-05A-00 SECTION THRU 1
SCALE: 1 : 110 M



2 A-05A-00 SECTION THRU 2
SCALE: 1 : 110 M



3 A-05A-00 SECTION THRU 3
SCALE: 1 : 110 M



4 A-05A-00 SECTION THRU 4
SCALE: 1 : 110 M

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:
RAUL R. CRUCENA
Division Chief II, IDDD - ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:
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Assistant Director General II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

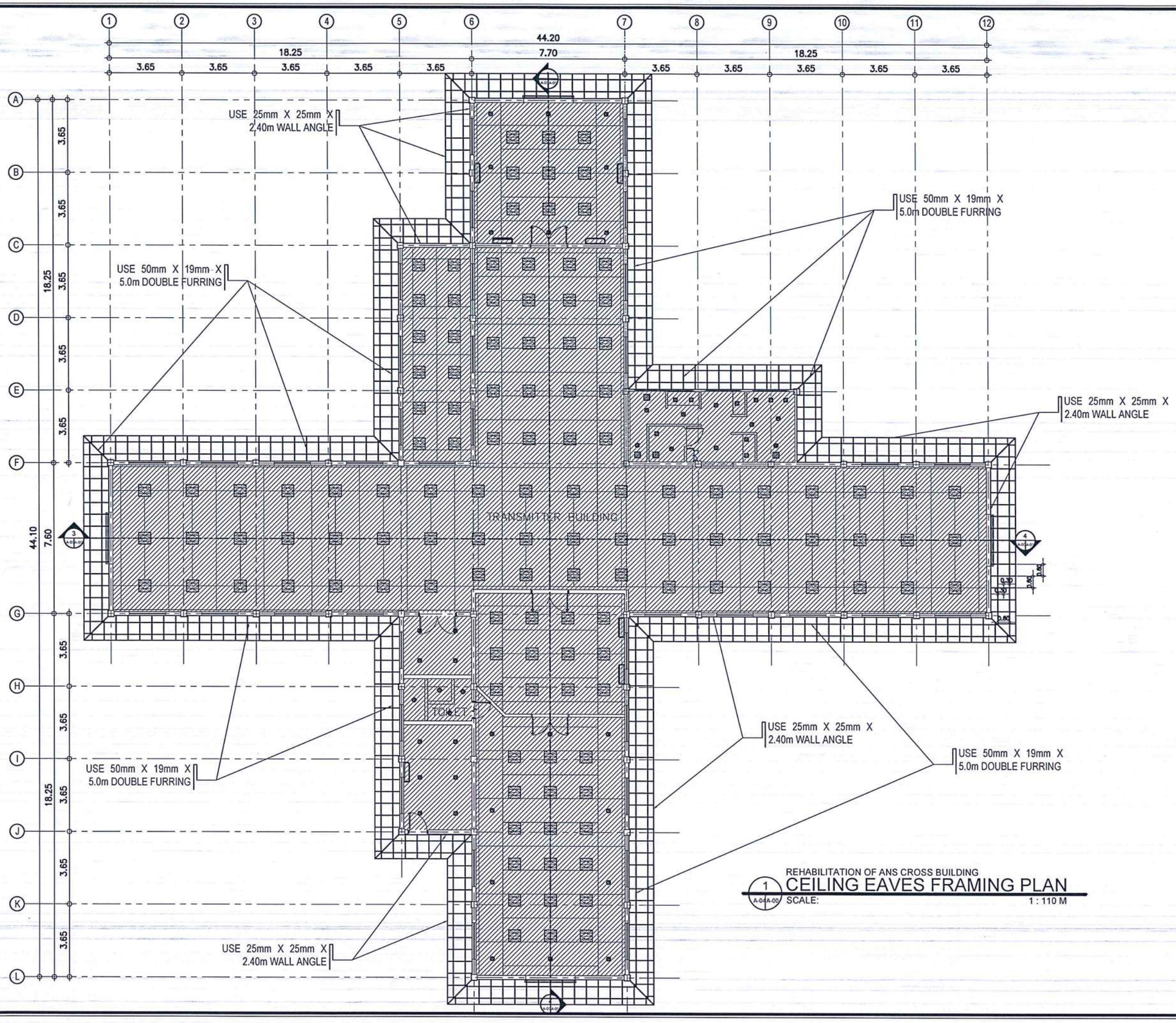
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
PROPOSED SECTION THRU 1
PROPOSED SECTION THRU 2
PROPOSED SECTION THRU 3
PROPOSED SECTION THRU 4

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	40



REHABILITATION OF ANS CROSS BUILDING

1 A-04/A-00 **CEILING EAVES FRAMING PLAN**

SCALE: 1 : 110 M

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
MIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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REVIEWED BY:

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Division Chief III, IDDD - ADMS

SUBMITTED BY:

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Department Manager III,AED-ADMS

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Assistant Director General II, ADMS

APPROVED:

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Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF ANS EQUIPMENT AND OFFICE BUILDING

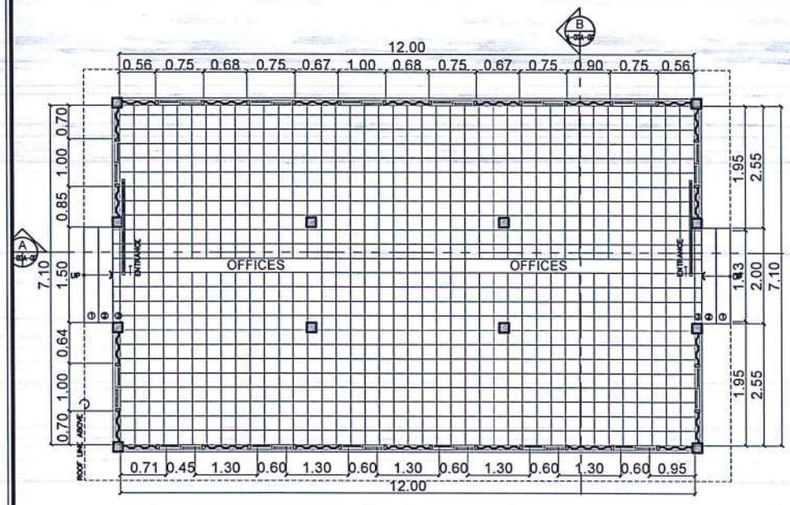
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

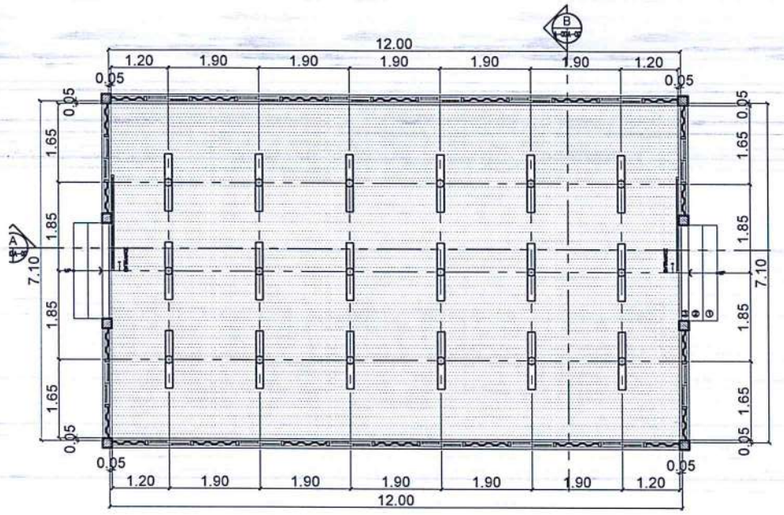
SHEET CONTENTS:

CEILING EAVES FRAMING PLAN

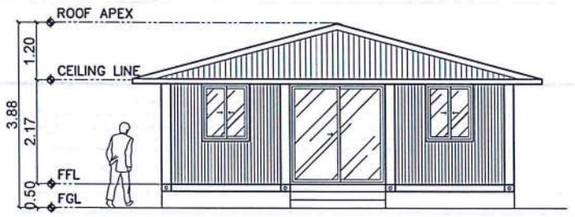
DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	41



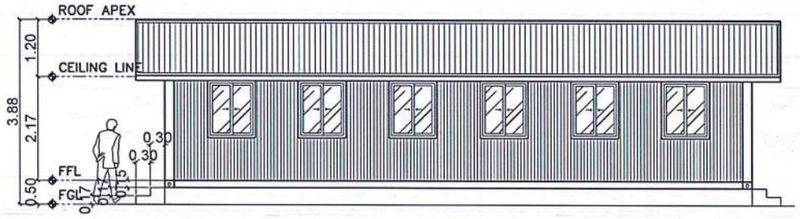
REHABILITATION OF OFFICES
1 / A-01 A-00 EXISTING FLOOR PLAN
SCALE: 1 : 75 M



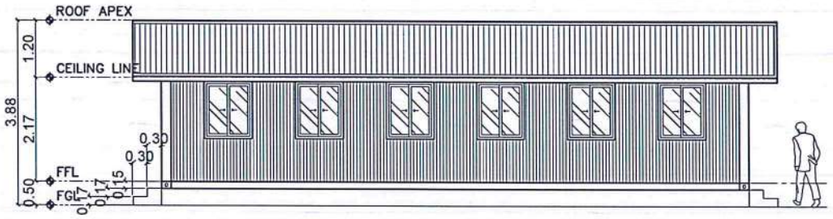
REHABILITATION OF OFFICES
1 / A-01 A-00 EXISTING REFLECTED CEILING PLAN
SCALE: 1 : 75 M



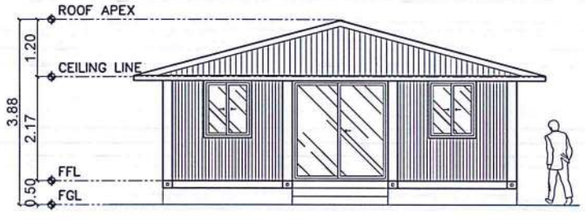
REHABILITATION OF OFFICES
1 / A-01 A-00 EXISTING FRONT ELEVATION
SCALE: 1 : 75 M



REHABILITATION OF OFFICES
1 / A-01 A-00 EXISTING LEFT-SIDE ELEVATION
SCALE: 1 : 75 M

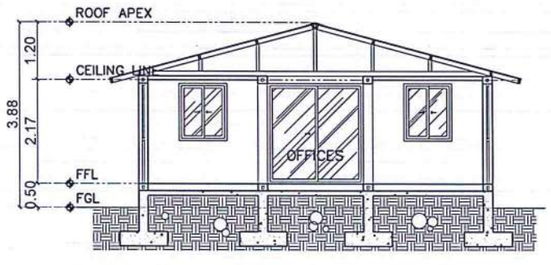


REHABILITATION OF OFFICES
1 / A-01 A-00 EXISTING RIGHT-SIDE ELEVATION
SCALE: 1 : 75 M



REHABILITATION OF OFFICES
1 / A-01 A-00 EXISTING REAR ELEVATION
SCALE: 1 : 75 M

REHABILITATION OF OFFICES
1 / A-01 A-00 EXISTING LONGITUDINAL SECTION THRU A
SCALE: 1 : 75 M



REHABILITATION OF OFFICES
1 / A-01 A-00 EXISTING CROSS SECTION THRU B
SCALE: 1 : 75 M

CAA PHILIPPINES
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
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REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:
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Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

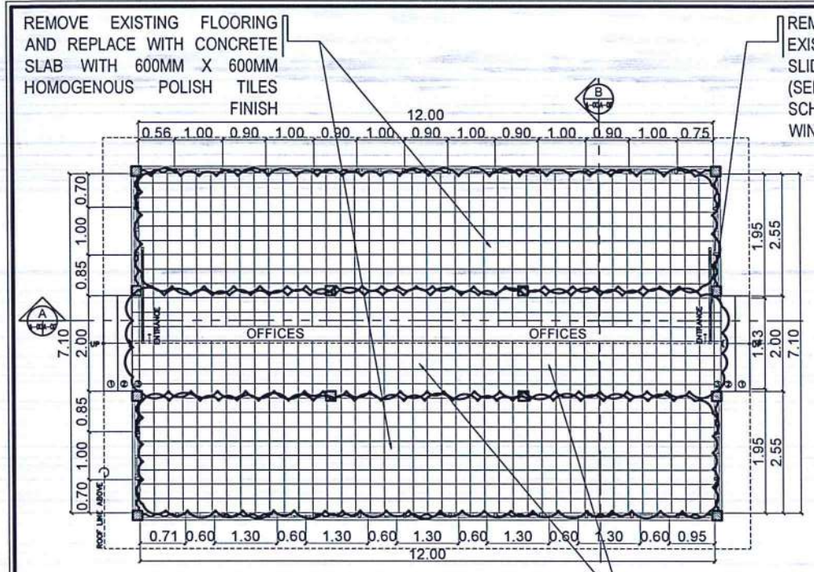
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF OFFICES 01, 02, AND 03

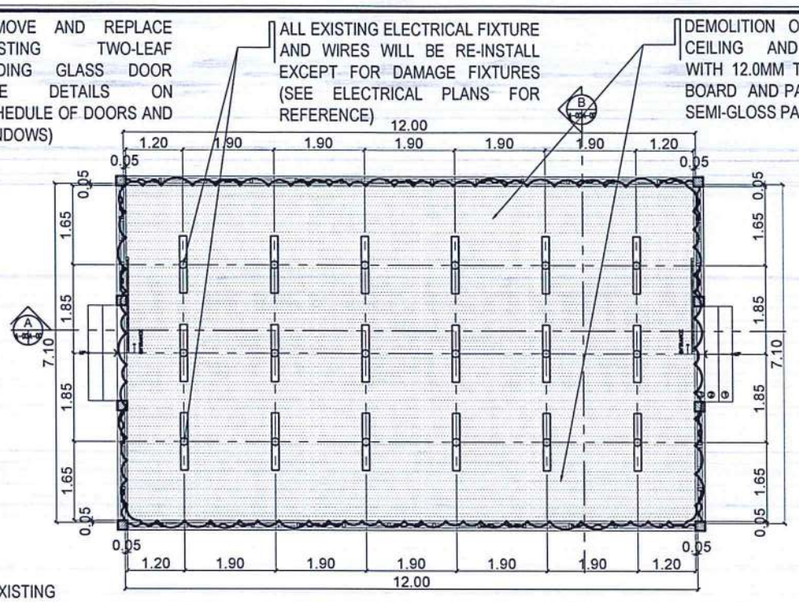
LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
EXISTING PLAN;
- FLOOR PLAN
- REFLECTED CEILING LAN
- FRONT ELEVATION
- LEFT-SIDE ELEVATION
- RIGHT-SIDE ELEVATION
- REAR ELEVATION
- LONGITUDINAL SECTION THRU A
- CROSS SECTION THRU B

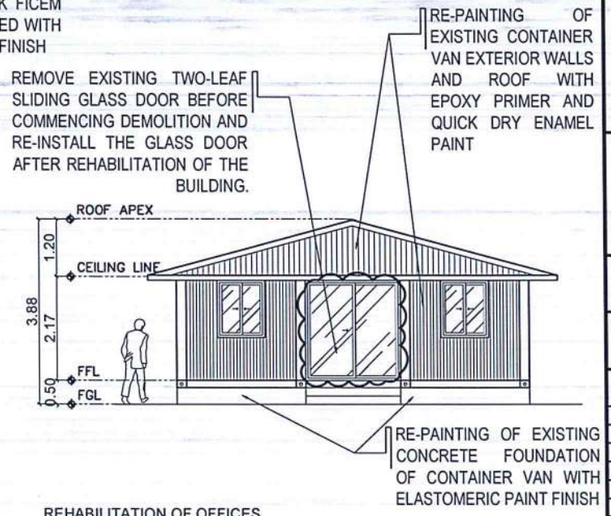
DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	42



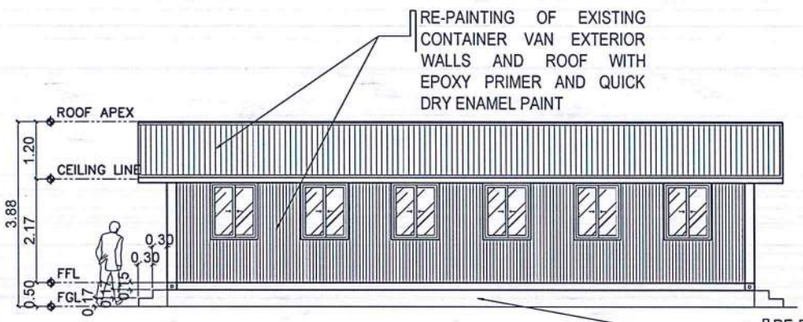
REHABILITATION OF OFFICES
1 / A-01A-00 DEMOLITION ON FLOOR PLAN
SCALE: 1 : 75 M



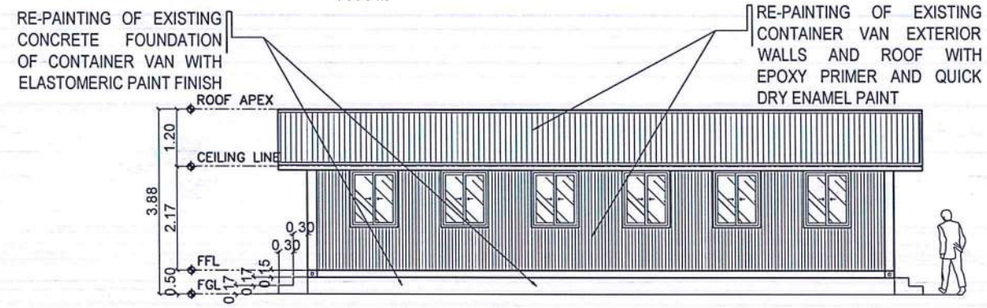
REHABILITATION OF OFFICES
1 / A-01A-00 DEMOLITION ON REFLECTED CEILING PLAN
SCALE: 1 : 75 M



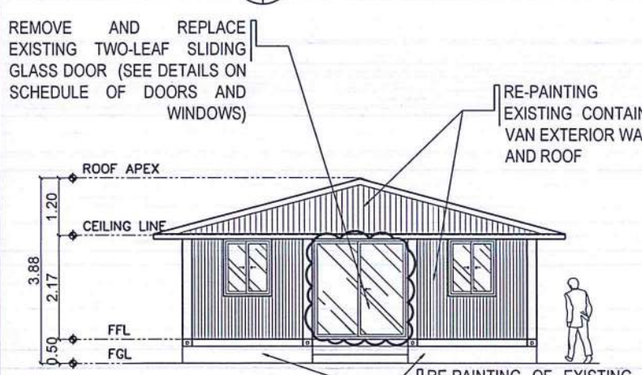
REHABILITATION OF OFFICES
1 / A-01A-00 DEMOLITION ON FRONT ELEVATION
SCALE: 1 : 75 M



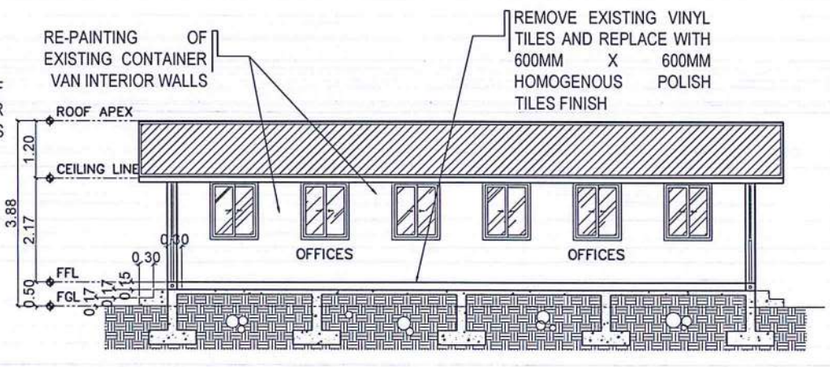
REHABILITATION OF OFFICES
1 / A-01A-00 DEMOLITION ON LEFT-SIDE ELEVATION
SCALE: 1 : 75 M



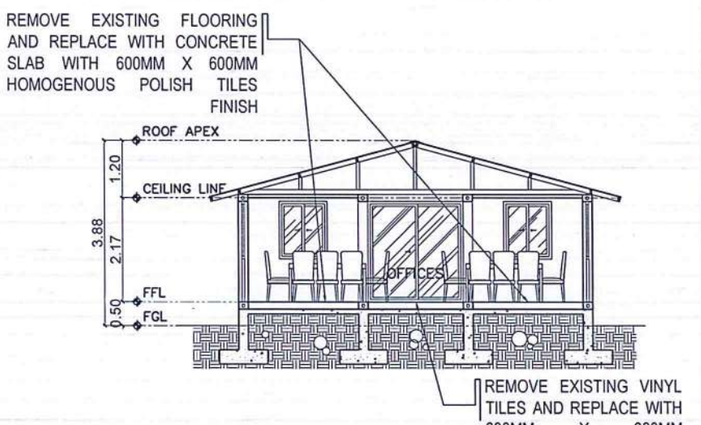
REHABILITATION OF OFFICES
1 / A-01A-00 DEMOLITION ON RIGHT-SIDE ELEVATION
SCALE: 1 : 75 M



REHABILITATION OF OFFICES
1 / A-01A-00 DEMOLITION ON REAR ELEVATION
SCALE: 1 : 75 M



REHABILITATION OF OFFICES
1 / A-01A-00 DEMOLITION ON LONGITUDINAL SECTION THRU A
SCALE: 1 : 75 M



REHABILITATION OF OFFICES
1 / A-01A-00 DEMOLITION ON CROSS SECTION THRU B
SCALE: 1 : 75 M

CAA PHILIPPINES
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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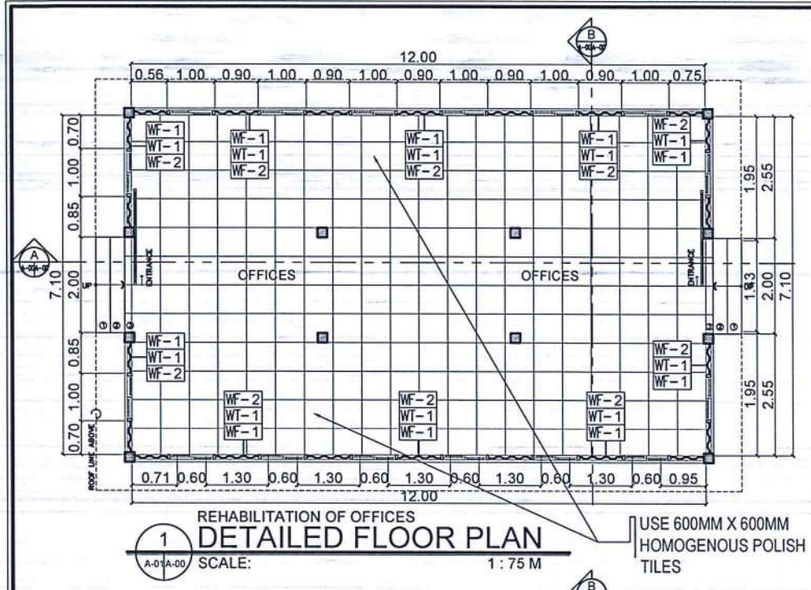
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF OFFICES 01, 02, AND 03

LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

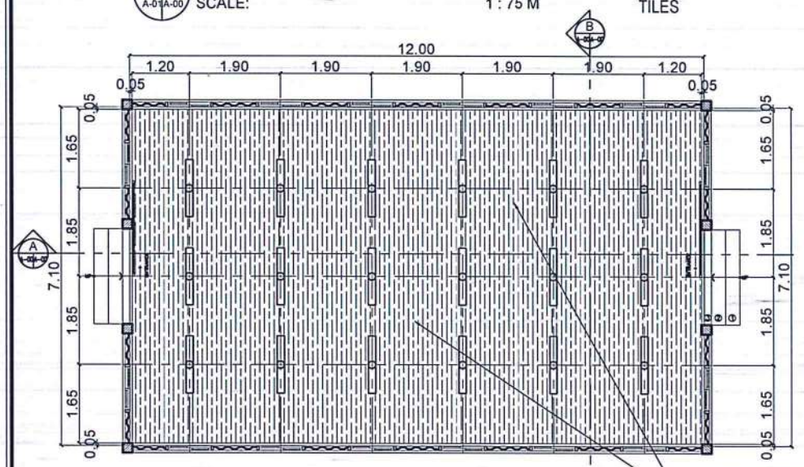
SHEET CONTENTS:
DEMOLITION PLAN:
- FLOOR PLAN
- REFLECTED CEILING LAN
- FRONT ELEVATION
- LEFT-SIDE ELEVATION
- RIGHT-SIDE ELEVATION
- REAR ELEVATION
- LONGITUDINAL SECTION THRU A
- CROSS SECTION THRU B

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	43



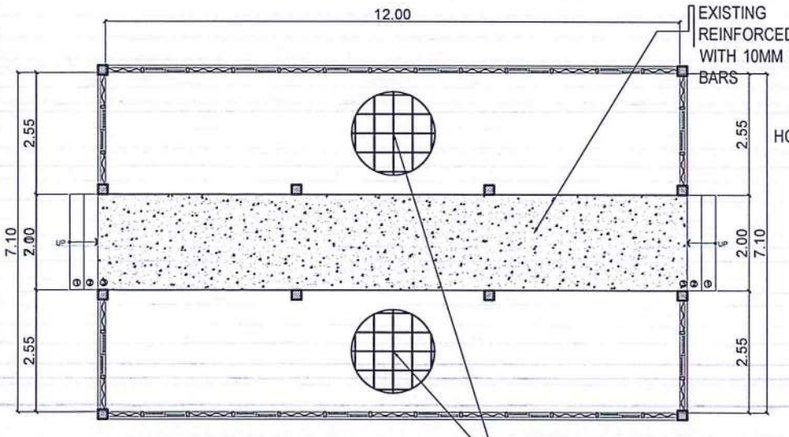
REHABILITATION OF OFFICES
1 A-01A-00 **DETAILED FLOOR PLAN**
SCALE: 1 : 75 M

USE 600MM X 600MM HOMOGENOUS POLISH TILES



REHABILITATION OF OFFICES
1 A-01A-00 **REFLECTED CEILING PLAN**
SCALE: 1 : 75 M

USE 12.0MM THICK FICEM BOARD FOR CEILING WITH SKIM COAT AND PAINTED WITH SEMI-GLOSS PAINT



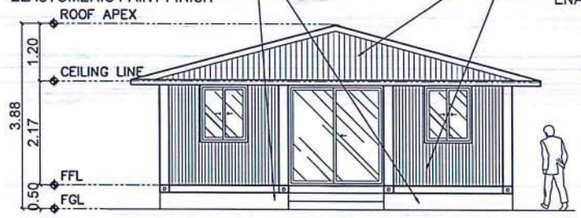
REHABILITATION OF OFFICES
1 A-01A-00 **SLAB ON FILL DETAIL**
SCALE: 1 : 75 M

EXISTING 100MM THICK REINFORCED CONCRETE WITH 10MM Ø TEMPERATURE BARS

PROVISION 100MM THICK REINFORCED CONCRETE WITH 10MM Ø TEMPERATURE BARS SPACED @ 200MM O.C.

RE-PAINTING OF EXISTING CONCRETE FOUNDATION OF CONTAINER VAN WITH ELASTOMERIC PAINT FINISH

RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS AND ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT

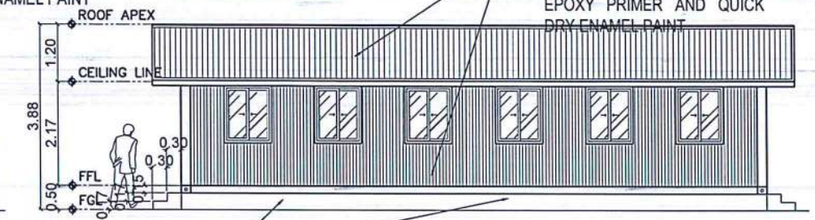


REHABILITATION OF OFFICES
1 A-01A-00 **FRONT ELEVATION**
SCALE: 1 : 75 M

RE-PAINTING OF EXISTING CONCRETE FOUNDATION OF CONTAINER VAN WITH ELASTOMERIC PAINT FINISH

RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS AND ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT

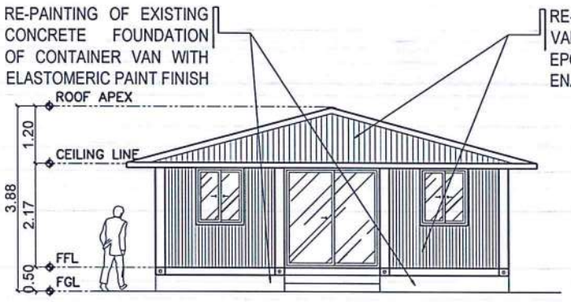
RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS AND ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



REHABILITATION OF OFFICES
1 A-01A-00 **LEFT-SIDE ELEVATION**
SCALE: 1 : 75 M

RE-PAINTING OF EXISTING CONCRETE FOUNDATION OF CONTAINER VAN WITH ELASTOMERIC PAINT FINISH

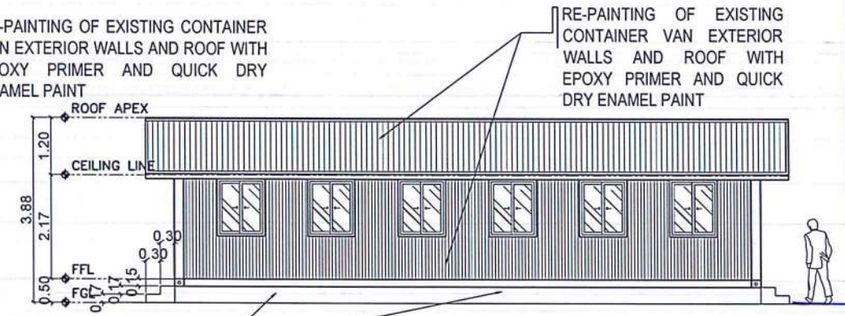
RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS AND ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



REHABILITATION OF OFFICES
1 A-01A-00 **REAR ELEVATION**
SCALE: 1 : 75 M

RE-PAINTING OF EXISTING CONCRETE FOUNDATION OF CONTAINER VAN WITH ELASTOMERIC PAINT FINISH

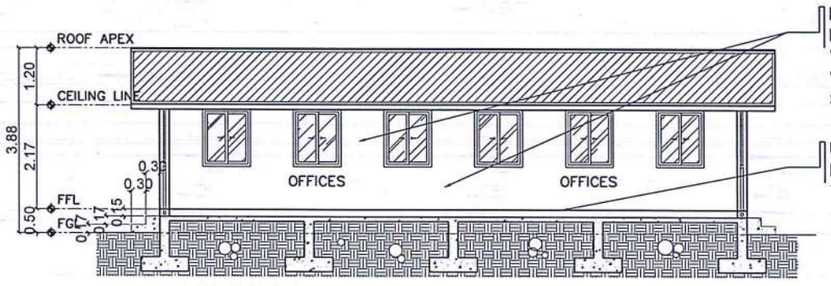
RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS AND ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



REHABILITATION OF OFFICES
1 A-01A-00 **RIGHT-SIDE ELEVATION**
SCALE: 1 : 75 M

RE-PAINTING OF EXISTING CONTAINER VAN INTERIOR WALLS WITH SKIM COAT AND SEMI-GLOSS PAINT

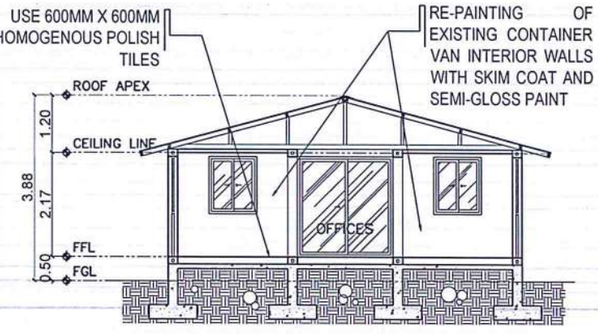
USE 600MM X 600MM HOMOGENOUS POLISH TILES



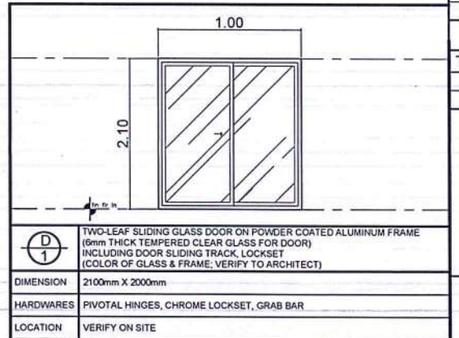
REHABILITATION OF OFFICES
1 A-01A-00 **LONGITUDINAL SECTION THRU A**
SCALE: 1 : 75 M

USE 600MM X 600MM HOMOGENOUS POLISH TILES

RE-PAINTING OF EXISTING CONTAINER VAN INTERIOR WALLS WITH SKIM COAT AND SEMI-GLOSS PAINT



REHABILITATION OF OFFICES
1 A-01A-00 **CROSS SECTION THRU B**
SCALE: 1 : 75 M



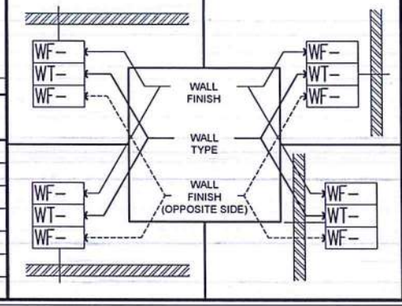
D 1	TWO-LEAF SLIDING GLASS DOOR ON POWDER COATED ALUMINUM FRAME (6mm THICK TEMPERED CLEAR GLASS FOR DOOR) INCLUDING DOOR SLIDING TRACK, LOCKSET (COLOR OF GLASS & FRAME; VERIFY TO ARCHITECT)
DIMENSION	2100mm X 2000mm
HARDWARES	PIVOTAL HINGES, CHROME LOCKSET, GRAB BAR
LOCATION	VERIFY ON SITE
NO. OF SETS	1 SET/S (VERIFY ON SITE)
J	50mm X 150mm ALUMINUM FRAME
H	50mm X 150mm ALUMINUM FRAME

LEGEND

TAG	WALL FINISHES
WF-1	PAINTING OF EXISTING EXTERIOR WALL WITH EPOXY PRIMER AND
	PAINTED WITH QUICK DRY ENAMEL PAINT
WF-2	RE-PAINTING OF EXISTING INTERIOR WALL WITH SEMI-GLOSS
	LATEX PAINT

LEGEND

TAG	WALL TYPE
WT-1	EXISTING STEEL WALL



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND REGULATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (jangz27)
CHECKED BY:	EJDJR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF OFFICES 01, 02, AND 03

LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
PROVISION PLAN:
FLOOR PLAN, DETAILED FLOOR PLAN
REFLECTED CEILING LAN
FRONT ELEVATION
LEFT-SIDE ELEVATION
RIGHT-SIDE ELEVATION
REAR ELEVATION
LONGITUDINAL SECTION THRU A
CROSS SECTION THRU B

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	44

GENERAL NOTES:

1. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH THE RULES AND REGULATIONS OF THE UTILITY COMPANIES CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY QUALIFIED AND LICENSED ELECTRICAL ENGINEER.
3. UNLESS OTHERWISE SPECIFIED IN THE PLAN; METHODS OF WIRING SHALL BE AS FOLLOWS:

   3.1 EMBEDDED IN CONCRETE
   - USE PVC SCH.40 CONDUIT EXCEPT COMMUNICATION AND DATA LINES

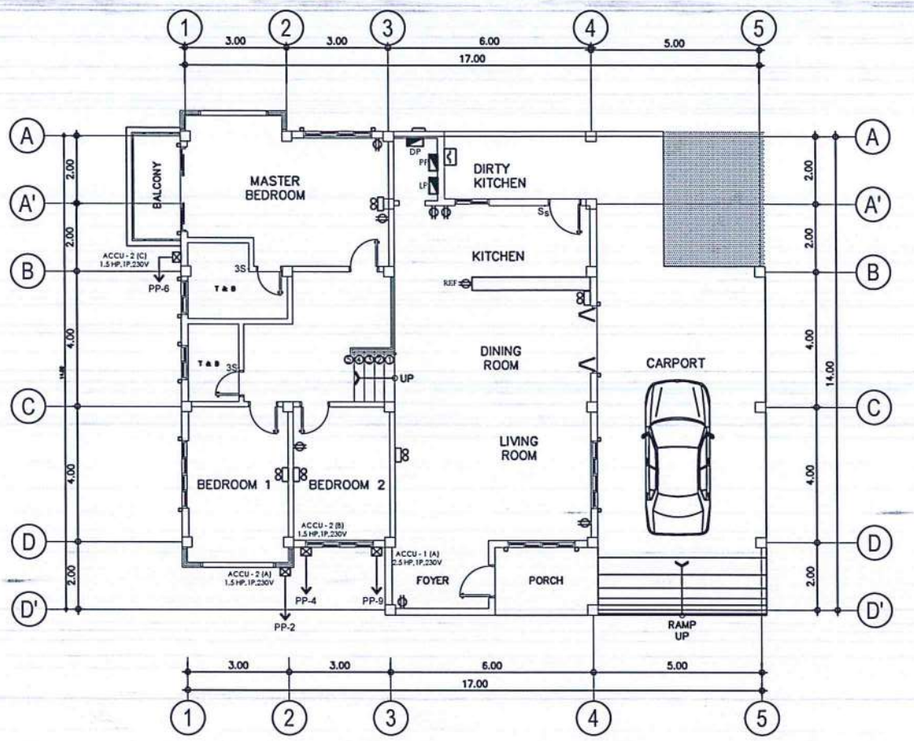
   3.2 NOT EMBEDDED IN CONCRETE
   - USE EMT CONDUITS WITH SIZE NOT LARGER THAN 25mm DIAMETER
   - USE IMC WITH SIZE LARGER THAN 25mm DIAMETER

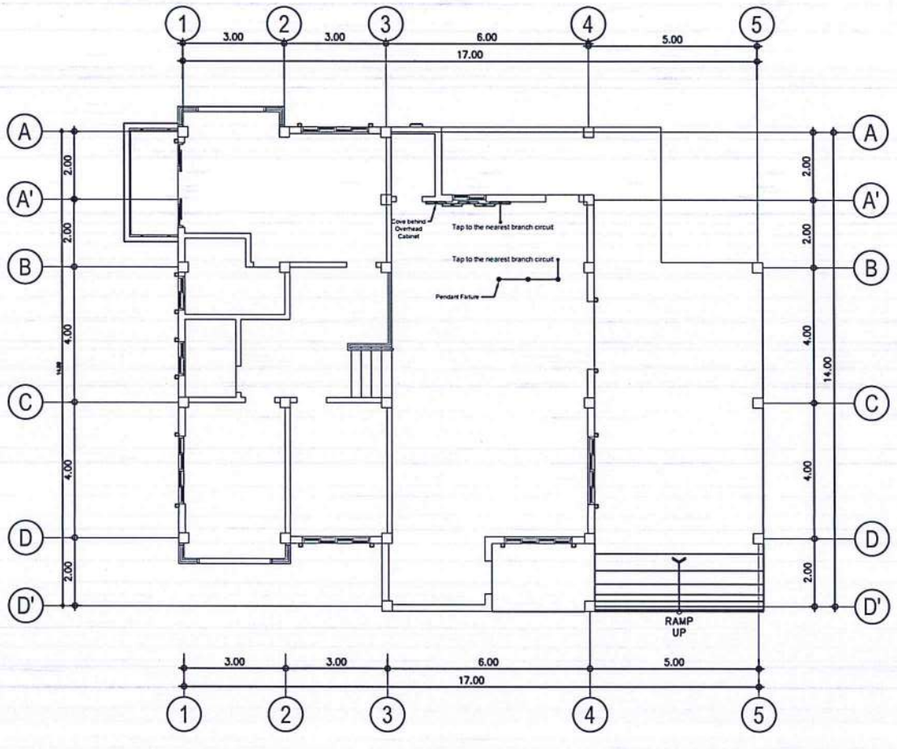
   3.3 MINIMUM SIZE OF WIRES AND CONDUITS TO BE USED SHALL BE NO. 3.5 SQ. MM. THHN/THWN-2 AND 15MM NOMINAL DIAMETER RESPECTIVELY **"USE UL LISTED"**.
4. WIRING SHALL BE COLOR CODED AS FOLLOWS ØA=RED, ØB=YELLOW, ØC=BLUE, GROUND=GREEN AND NEUTRAL=WHITE **"USE UL LISTED"**.
5. INSTALLATION OF ALL WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, IMPROPERLY SET WORK OR FINISH AS DETERMINED BY THE ENGINEER/ARCHITECT SHALL BE REMOVED AND REPLACED AT NO EXTRA COST.
6. ALL MATERIALS SHOULD BE NEW AND ACCEPTABLE TO THE ARCHITECT/ENGINEER, UNLESS OTHERWISE SPECIFIED TO RE-USE OTHER MATERIALS.
7. ALL MATERIALS SHALL BE SUBJECT FOR APPROVAL BY THE ENGINEER.
8. THE USE OF ANY MATERIALS NOT SPECIFIED IN THE SPECIFICATION MAY BE ALLOWED PROVIDED, HOWEVER THAT SUCH SUBSTITUTED MATERIALS ARE PROVEN EQUAL AND/OR SUPERIOR IN QUALITY & SHALL HAVE PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
9. APPROPRIATE TOOLS AND TESTING EQUIPMENT SHALL BE USED THROUGH OUT ELECTRICAL INSTALLATION WORKS PRIOR TO TURN-OVER OF THE PROJECT.
10. SUBMIT AN ACCURATE AS-BUILT PLANS.
11. GENERAL USED RECEPTACLE SHALL BE RATED 16 AMPERES, 2 POLE, 250 VOLTS, UNIVERSAL GROUNDING TYPE WITH PARALLEL SLOTS, SPECIAL PURPOSE OUTLET SHALL BE OF THE TYPE AND RATING INSULATED FOR RATING SUITED FOR THE EQUIPMENT SERVED.
12. ALL ACCESSORIES, SPLICING DEVICES, TERMINATIONS AND OTHER APPURTENANCES FOR THE ENTIRE INSTALLATIONS SHALL BE OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSE INTENDED.
13. ALL ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE REQUIREMENT OF THE PHILIPPINE ELECTRICAL CODE.
14. JUNCTION BOXES, PULL BOXES, WIRE GUTTER GAUGE NO. 16 (MINIMUM) SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER REQUIRED AND NECESSARY AND SHALL BE INSTALLED AT CONVENIENT SPACE AND LOCATION TO FACILITATE WIRE PULLING EVEN IF THESE ITEMS ARE NOT SHOWN IN THE PLAN.
15. PANEL BOARD SHALL BE EQUIPPED WITH GROUND AND NEUTRAL KIT TERMINALS WITH NUMBER OF TERMINALS EQUAL TO THE NUMBER OF BRANCH CIRCUITS.
16. FOR EACH SPARE BRANCH CIRCUIT IN PANEL BOARD, PROVIDE ONE 15MMØ EMPTY CONDUIT CONNECTED TO AN OCTAGONAL BOX AT ABOVE CEILING.
17. VERIFYING AND TRACING OF THE EXISTING ELECTRICAL SYSTEM OF THE BUILDING SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
18. LAYOUT DIMENSION SHOWN IN DRAWINGS ARE APPROXIMATE ONLY AND INTENDED TO SERVE AS AN INSTALLATION GUIDE. DIMENSION MUST BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITION. WHENEVER FIELD CONDITION OR EXIGENCIES OF CONSTRUCTION MAKE DEPARTURE FROM THE LAYOUT SHOWN, DETAIL OF SUCH DEPARTURE FROM PLAN AND REASON THEREOF SHALL BE SUBMITTED TO THE OWNER OR HIS DULY AUTHORIZED REPRESENTATIVE AND NO DEPARTURE SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE AUTHORITIES CONCERNED.
16. **SECURING OF NECESSARY ELECTRICAL PERMITS, CEI AND OTHER NECESSARY REQUIREMENTS SHALL BE PART OF THE GENERAL CONTRACTOR, INCLUDING COORDINATION/APPLICATION WITH THE UTILITY COMPANY FOR POWER INTERRUPTION.**
17. USE PROPER ROPE AND WIRE PULLING LUBRICANT WHENEVER REQUIRED AND NECESSARY.

LEGENDS:

SYMBOL	DESCRIPTION
———	CONDUIT RUN ON CEILING/FLOOR/WALL
——→	HOMERUN TO PANELBOARD/PULLBOX/PATCH PANEL
⊖	DUPLEX CONVENIENCE OUTLET, 16A, 250V, UNIVERSAL AND GROUNDING TYPE WITH MOUNTING AND DEVICE PLATE
S	ONE-GANG SWITCH, 16A, 250V, WITH MOUNTING STRAP AND DEVICE PLATE COVER
2S	TWO-GANG SWITCH, 16A, 250V, WITH MOUNTING STRAP AND DEVICE PLATE COVER
3S	THREE-GANG SWITCH, 16A, 250V, WITH MOUNTING STRAP AND DEVICE PLATE COVER
▭	PANEL BOARD
↓	GROUND CONNECTION
⊠	ACCU CB IN NEMA-3R ENCLOSURE
—	600MM BATTEN TYPE LIGHTING FIXTURE WITH 1 X 10 WATTS (T-5) LED BULB, 100-240V, 60Hz

◎	4" DIAMETER CYLINDRICAL PENDANT LIGHT FIXTURE WITH POWDER COAT FINISH CASING,MATTE ALUMINUM REFLECTOR AND FROSTED GLASS COVER WITH 1×4 WATTS LED BULB, 100-240V, 60Hz
⊟	EMERGENCY LIGHT





REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	JPCJR
CHECKED BY:	RUAJR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF CAAP QUARTERS 2)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
GENERAL NOTES
LEGENDS
LIGHTING AND POWER LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-1

GENERAL NOTES:

1. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH THE RULES AND REGULATIONS OF THE UTILITY COMPANIES CONCERNED.
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LEGENDS:

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⊖	DUPLEX CONVENIENCE OUTLET, 16A, 250V, UNIVERSAL AND GROUNDING TYPE WITH MOUNTING AND DEVICE PLATE
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2S	TWO-GANG SWITCH, 16A, 250V, WITH MOUNTING STRAP AND DEVICE PLATE COVER
3S	THREE-GANG SWITCH, 16A, 250V, WITH MOUNTING STRAP AND DEVICE PLATE COVER
◪	PANEL BOARD
⏚	GROUND CONNECTION
⊠	ACCU CB IN NEMA-3R ENCLOSURE
▭	1200MM INDUSTRIAL TYPE LIGHTING FIXTURE POWDER COATED WITH ALUMINUM REFLECTOR AND 2 X 18WATTS LED TUBE, 100-277V, 60 HZ.
▬	1200MM X 300MM RECESSED MOUNTED LOUVER TYPE LIGHTING FIXTURE WITH MIRRORIZED ALUMINUM REFLECTOR AND 2 X 18 WATTS LED TUBE, 100-277V, 60 HZ.
◎	150MM DIAMETER RECESSED MOUNTED ROUND DOWNLIGHT FIXTURE WITH POWDER COAT FINISH CASING, MATTE ALUMINUM REFLECTOR, CLEAR GLASS DIFFUSER AND 1 X 9 WATTS, LED BULB, 100-277V, 60 HZ.

SCHEDULE OF LOADS: LPP: 240VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING OUTLET	24	230	1000	1	4.35				20AT, 2P	2-3.5mm² + 1-3.5mm² THHN/THWN-2 CU WIRE	15mmØ EMT
2	CONVENIENCE OUTLET	8	230	1440	1	6.26				20AT, 2P	2-3.5mm² + 1-3.5mm² THHN/THWN-2 CU WIRE	15mmØ EMT
3	ACU	-	230	2300	1			10		20AT, 2P	2-3.5mm² + 1-3.5mm² THHN/THWN-2 CU WIRE	15mmØ EMT
4	SPACE											
5	ACU	-	230	2300	1		10			20AT, 2P	2-3.5mm² + 1-3.5mm² THHN/THWN-2 CU WIRE	15mmØ EMT
6	SPACE											
T O T A L				7040		10.61	10	10				

$I_T = 7040/(\sqrt{3} \times 230) + (25\% \times 10) = 20.19$ AMPS

$I_T = 20.19$ AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 8.0mm² THHN/THWN-2 COPPER WIRE
1 - 5.5mm² THHN/THWN-2 COPPER WIRE
IN 32MMØ IMC

FOR THE MAIN SERVICE PROTECTION:
USE: 50AT, 100AF, 3-POLE, 10KAIC, 240V MCCB

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	JPCJR
CHECKED BY:	

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

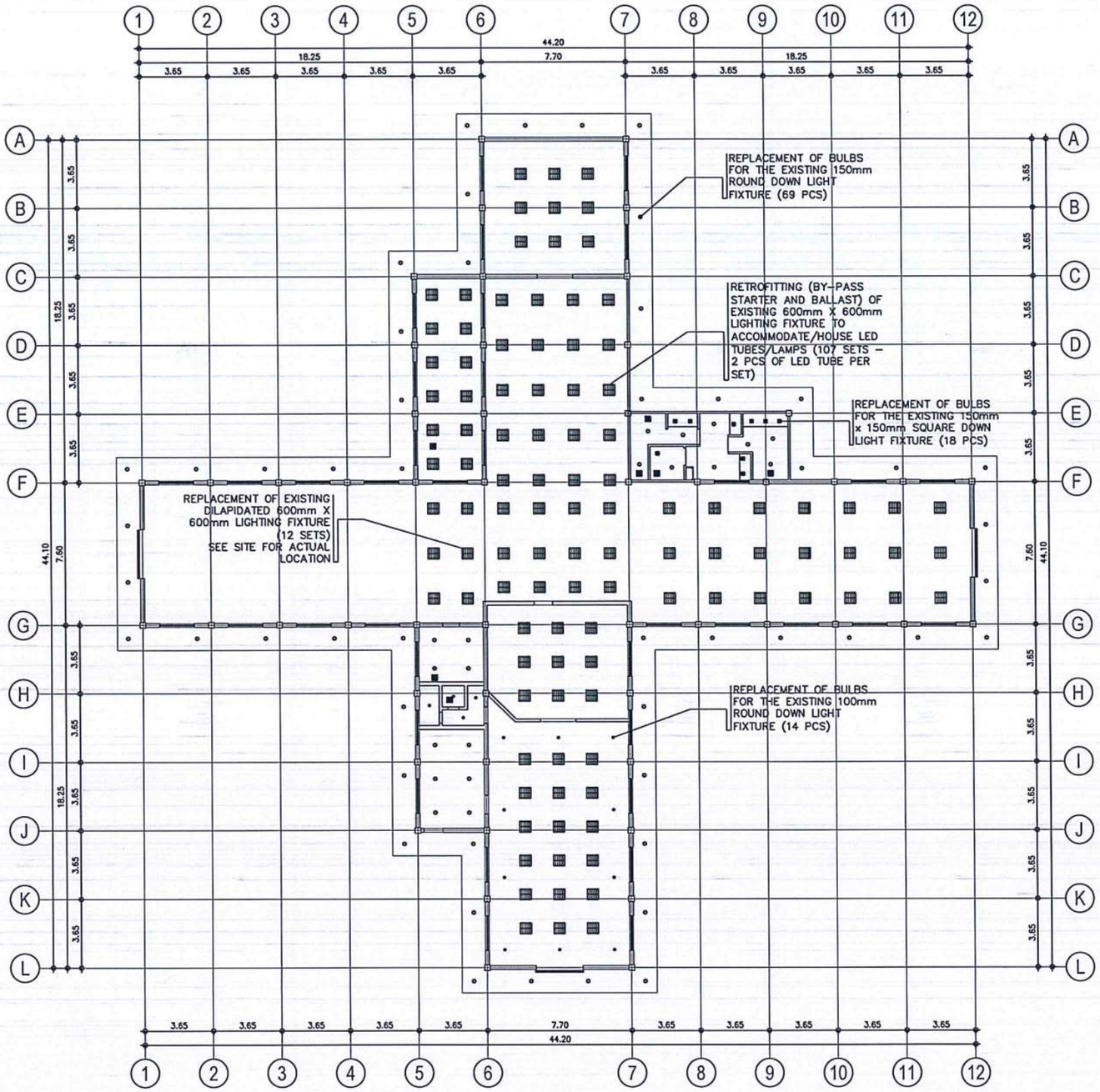
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF POWERPLANT BUILDING)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
GENERAL NOTES
LEGENDS
SCHEDULE OF LOADS

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-1



REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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DESIGNED BY:	IDDD
DRAWN BY:	JPCJR
CHECKED BY:	RUAJR

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Division Chief III, IDDD-ADMS

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ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

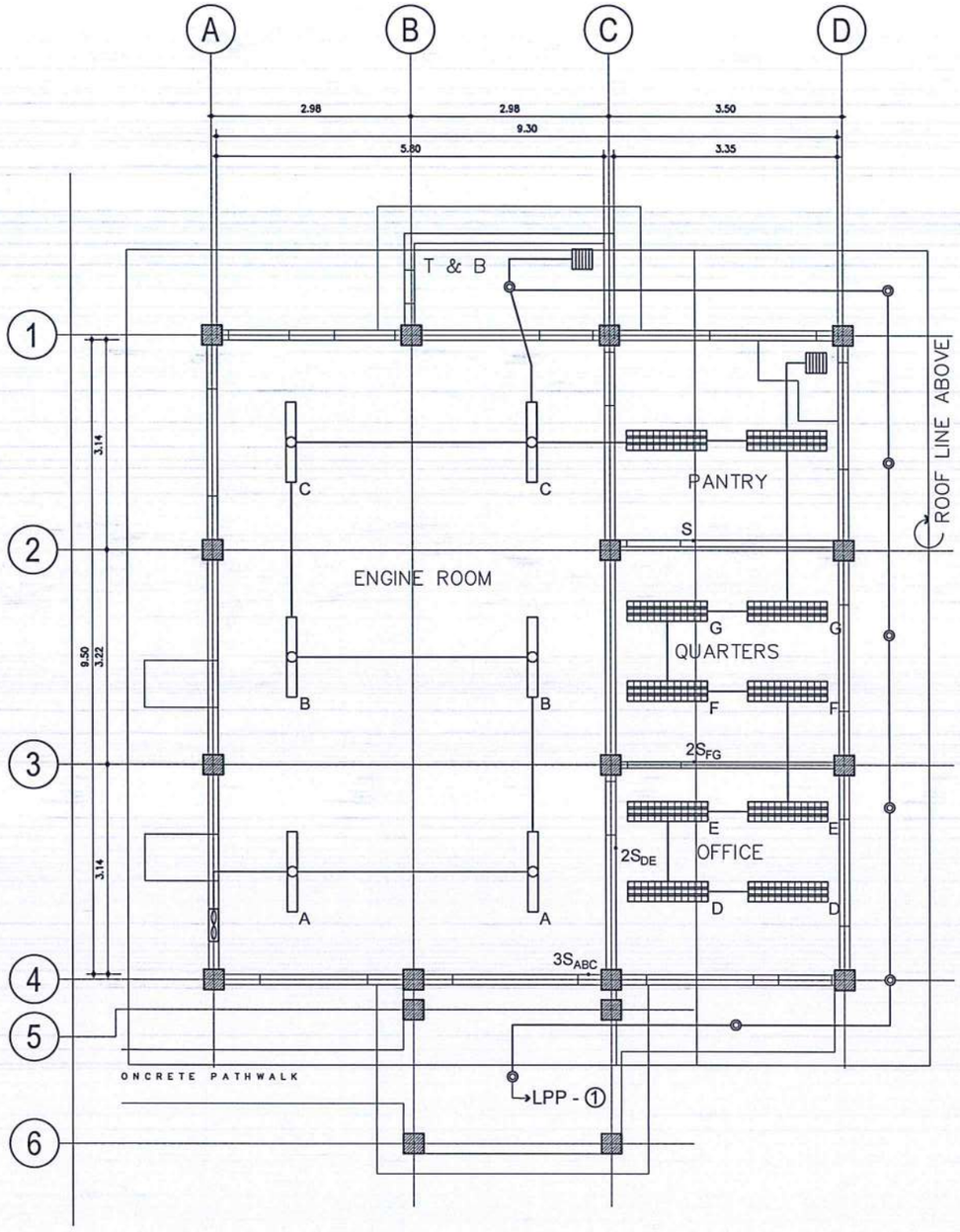
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF TRANSMITTER STATION BUILDING)

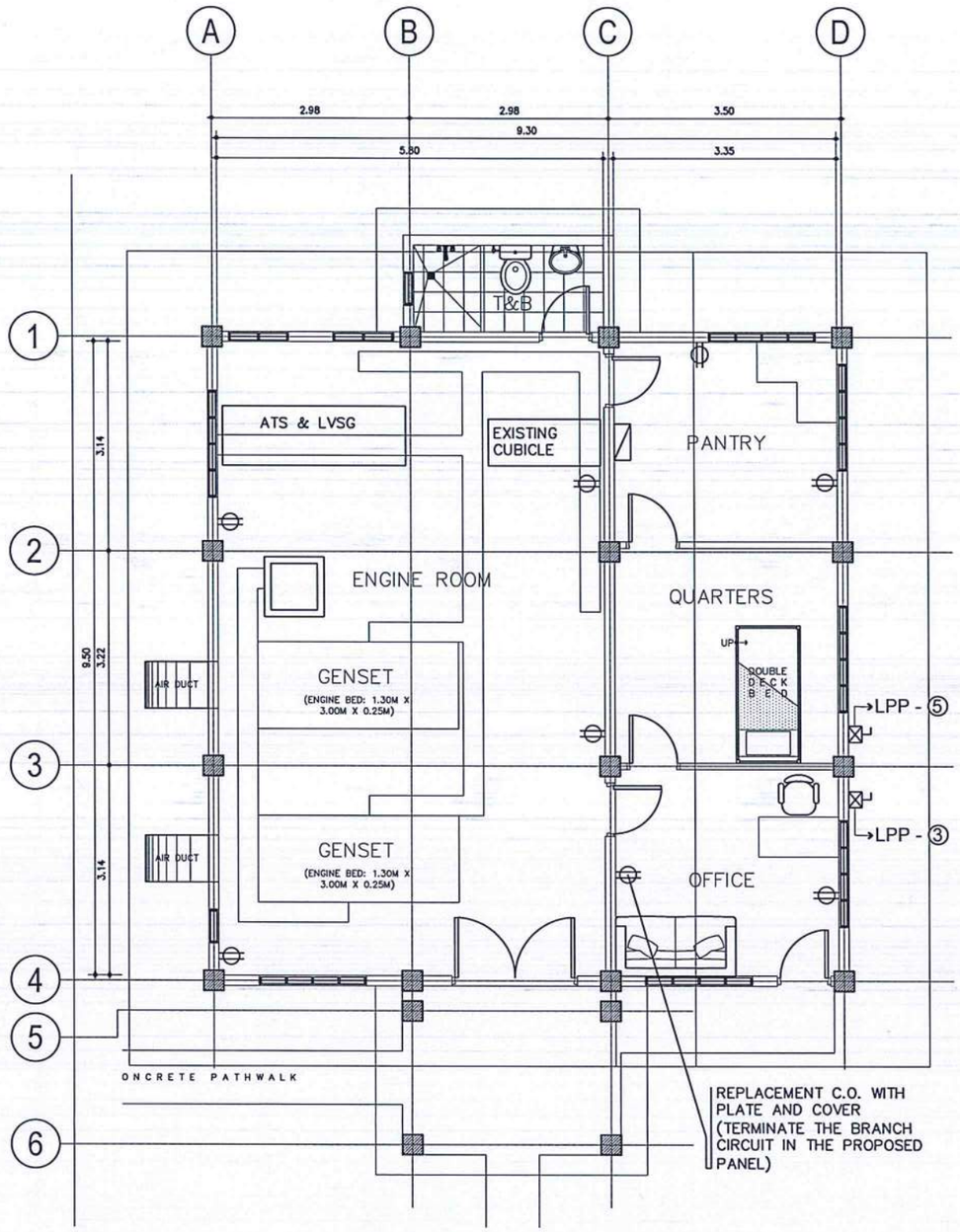
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
LIGHTING LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-1



1 E 2 LIGHTING LAYOUT PLAN
SCALE: 1:50MTS



2 E 2 POWER LAYOUT PLAN
SCALE: 1:50MTS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
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DRAWN BY:	JPCJR
CHECKED BY:	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:

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Department Manager III, AED-ADMS

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ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF POWERPLANT BUILDING)

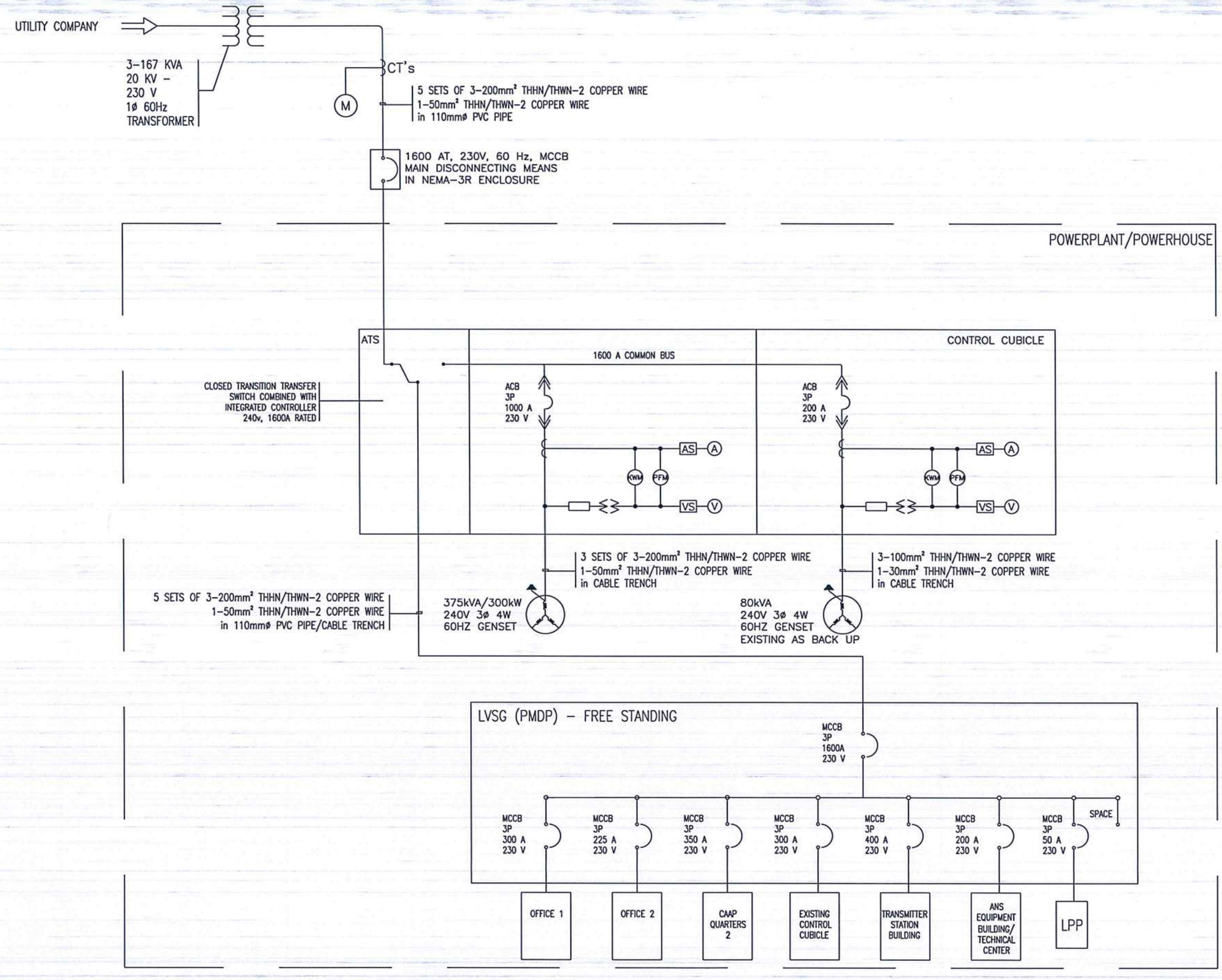
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

LIGHTING LAYOUT PLAN
POWER LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-2



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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
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CHECKED BY:	

REVIEWED BY:

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Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF POWERPLANT BUILDING)

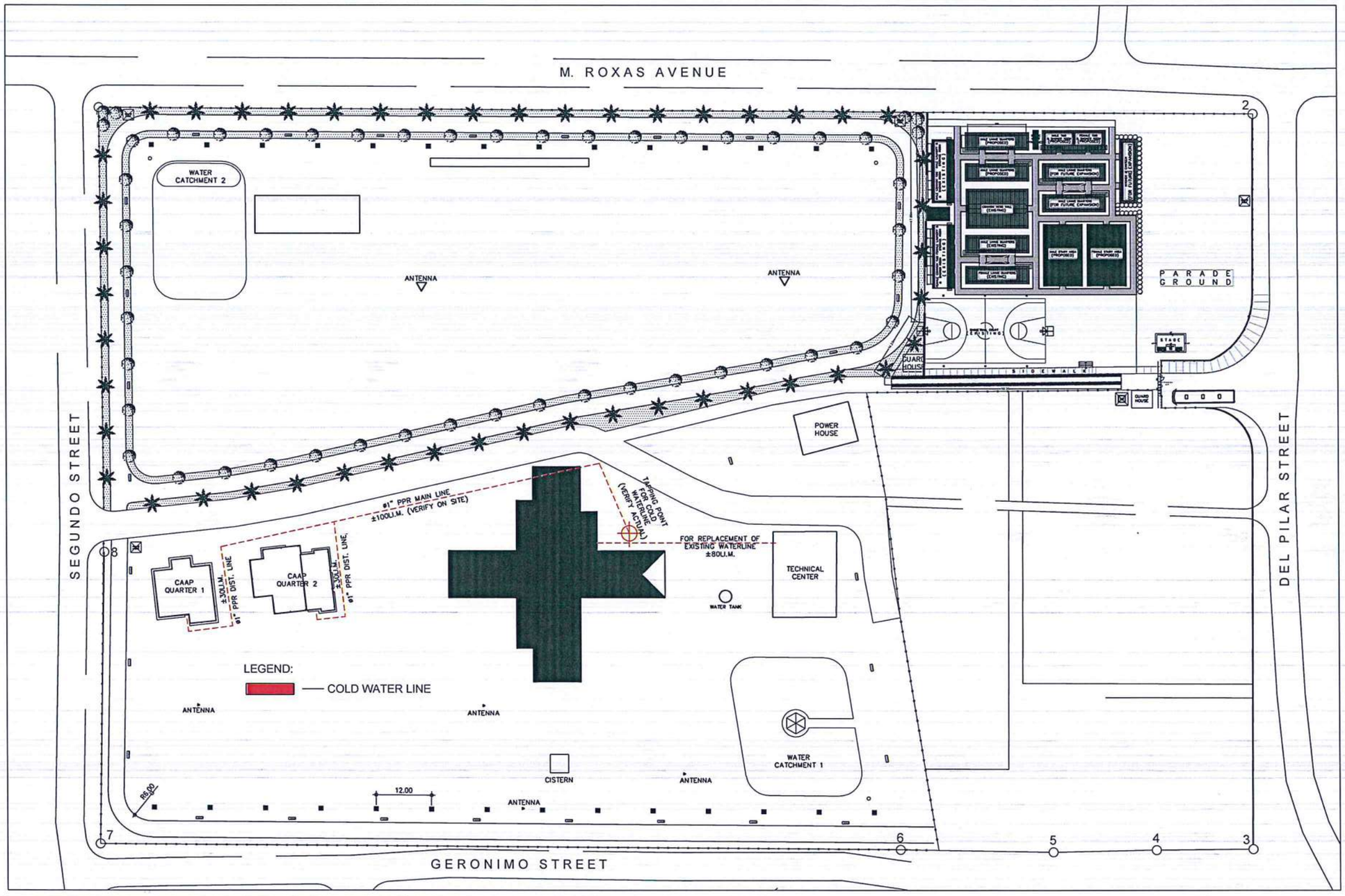
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

SINGLE LINE DIAGRAM

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-3



COLD WATER LINE LAYOUT (CAAP QUARTERS 1 & 2)

SCALE 1:500M

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REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF CAAP QUARTERS 2)

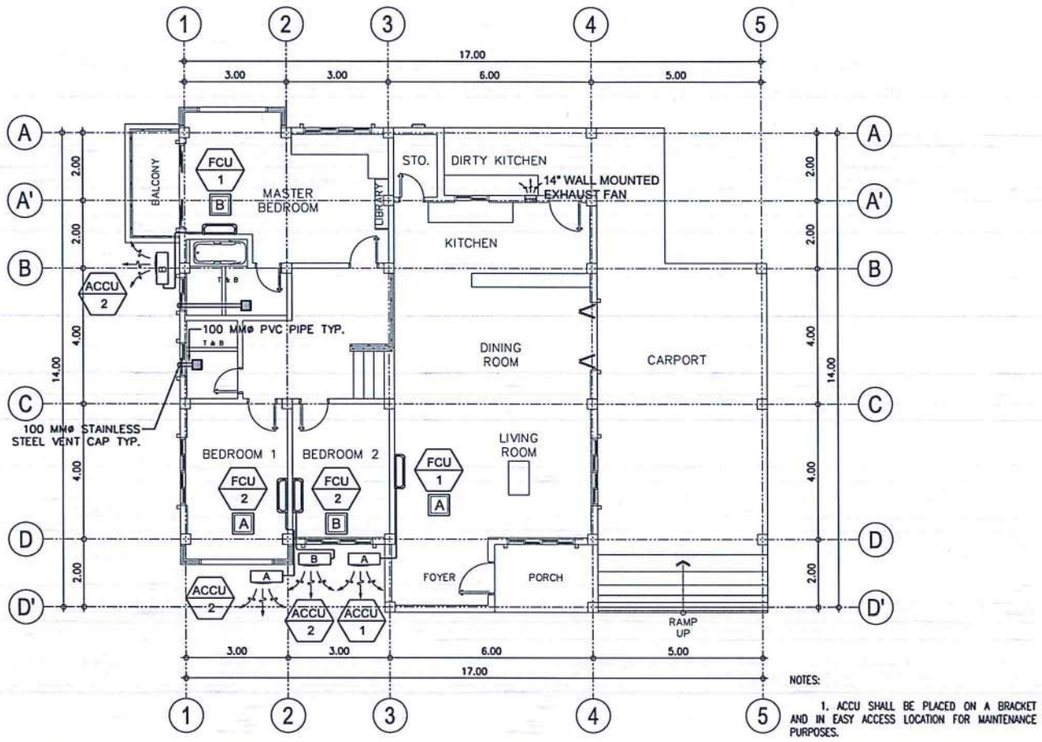
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- COLD WATER LINE LAYOUT

DRAWING SCALE:	SHEET NO:
AS SHOWN	P-03

LEGEND:

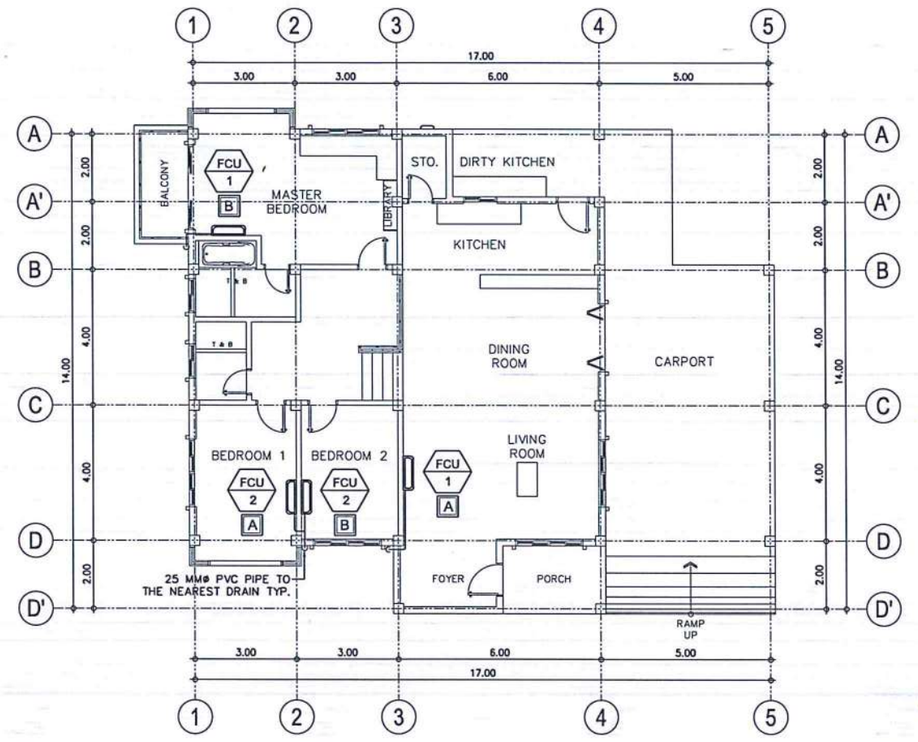
- ACCU 1 / A — AIR COOLED CONDENSING UNIT (INVERTER OUTDOOR UNIT, VER. SPECS) CAPITAL LETTER ON RECTANGLE DENOTES FCU CONTROLLED AND EQUIPMENT TAG NUMBER INDICATES TYPE OF ACCU.
- FCU 1 / A — FAN COIL UNIT (INDOOR UNIT, VER. SPECS) CAPITAL LETTER ON SQUARE CORRESPONDS TO THE ACCU AND EQUIPMENT TAG NUMBER INDICATES TYPE OF FCU
- PIPE GOING DOWN
- 12" CEILING MOUNTED EXHAUST FAN
- 14" WALL MOUNTED EXHAUST FAN W/ SHUTTER BLADES



NOTES:

1. ACCU SHALL BE PLACED ON A BRACKET AND IN EASY ACCESS LOCATION FOR MAINTENANCE PURPOSES.
2. CEILING MOUNTED EXHAUST FAN SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT.

1 / M-1 | M-1 ACU AND EXHAUST FAN LAYOUT
SCALE: 1:100 MTS.



2 / M-1 | M-1 ACU CONDENSATE DRAIN PIPE LAYOUT
SCALE: 1:100 MTS.

FAN COIL UNIT (INDOOR UNIT)

MARK	QTY.	LOCATION / AREA SERVED	COOLING LOAD/UNIT HP (TR)	DRAIN LINE mm (IN)	REFRIGERANT			ELECTRICAL DATA			NET WEIGHT KG	REMARKS
					TYPE	PIPE CONNECTION						
						GAS LINE mm (IN)	LIQUID LINE mm (IN)	V	PH	HZ		
FCU 1	2	LIVING ROOM & MASTER BEDROOM	2.0	25 (1)	R-32	12.70 (1/2)	6.35 (1/4)	220-230	1	60	10.4	INVERTER WALL MOUNTED TYPE INDOOR FREE BLOW FAN COIL UNIT COMPLETE WITH REMOTE WIRELESS, TEMPERATURE CONTROLLER, FAN SPEED SWITCH, EQUIPMENT SUPPORT AND STANDARD ACCESSORIES.
FCU 2	2	BEDROOM 1 & 2	1.5	25 (1)	R-32	12.70 (1/2)	6.35 (1/4)	220-230	1	60	7.7	INVERTER WALL MOUNTED TYPE INDOOR FREE BLOW FAN COIL UNIT COMPLETE WITH REMOTE WIRELESS, TEMPERATURE CONTROLLER, FAN SPEED SWITCH, EQUIPMENT SUPPORT AND STANDARD ACCESSORIES.

AIR COOLED CONDENSING UNIT (OUTDOOR UNIT)

MARK	QTY.	CAPACITY HP (TR)	EQUIPMENT SERVED	REFRIGERANT			ELECTRICAL DATA			NET WEIGHT KG	REMARKS
				TYPE	PIPE CONNECTION						
					GAS LINE mm (IN)	LIQUID LINE mm (IN)	V	PH	HZ		
ACCU 1	2	2.0	FCU-1	R-32	12.70 (1/2)	6.35 (1/4)	220-230	1	60	24.4	INVERTER FLOOR MOUNTED AIR COOLED CONDENSER UNIT COMPLETE WITH CONDENSER FAN, HERMETIC COMPRESSOR, ELECTRICAL CONNECTION AND EQUIPMENT PAD. THE UNIT SHALL BE THE SAME MANUFACTURER OF FCU.
ACCU 2	2	1.5	FCU-2	R-32	12.70 (1/2)	6.35 (1/4)	220-230	1	60	19.9	INVERTER FLOOR MOUNTED AIR COOLED CONDENSER UNIT COMPLETE WITH CONDENSER FAN, HERMETIC COMPRESSOR, ELECTRICAL CONNECTION AND EQUIPMENT PAD. THE UNIT SHALL BE THE SAME MANUFACTURER OF FCU.

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	JCMC
CHECKED BY:	RUAJR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF CAAP QUARTERS - 2)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- ACU & EXHAUST FAN LAYOUT
- ACU CONDENSATE DRAIN PIPE LAYOUT
- EQUIPMENT SCHEDULE

DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 1

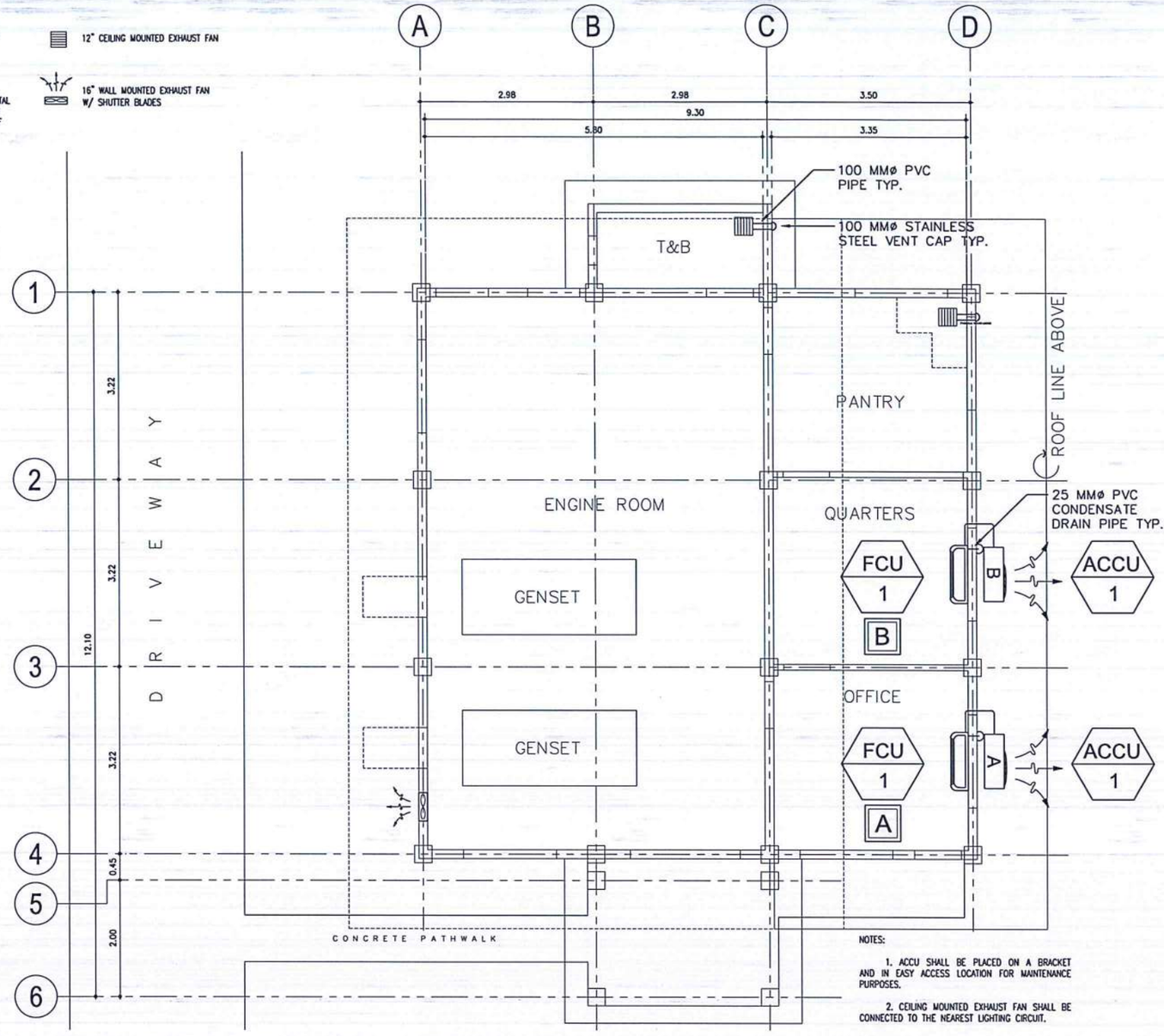
LEGEND:

ACCU 1 / A — AIR COOLED CONDENSING UNIT (INVERTER OUTDOOR UNIT, VER. SPECS) CAPITAL LETTER ON RECTANGLE DENOTES FCU CONTROLLED AND EQUIPMENT TAG NUMBER INDICATES TYPE OF ACCU.

FCU 1 / A — FAN COIL UNIT (INDOOR UNIT, VER. SPECS) CAPITAL LETTER ON SQUARE CORRESPONDS TO THE ACCU AND EQUIPMENT TAG NUMBER INDICATES TYPE OF FCU

12" CEILING MOUNTED EXHAUST FAN

16" WALL MOUNTED EXHAUST FAN W/ SHUTTER BLADES



NOTES:

1. ACCU SHALL BE PLACED ON A BRACKET AND IN EASY ACCESS LOCATION FOR MAINTENANCE PURPOSES.

2. CEILING MOUNTED EXHAUST FAN SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT.

1 / M-1 | M-1 ACU AND EXHAUST FAN LAYOUT

SCALE: NTS

FAN COIL UNIT (INDOOR UNIT)

MARK	QTY.	LOCATION / AREA SERVED	COOLING LOAD/UNIT HP (TR)	DRAIN LINE mm (IN)	REFRIGERANT TYPE	REFRIGERANT PIPE CONNECTION GAS LINE mm (IN)	REFRIGERANT PIPE CONNECTION LIQUID LINE mm (IN)	ELECTRICAL DATA V	ELECTRICAL DATA PH	ELECTRICAL DATA HZ	NET WEIGHT KG	REMARKS
FCU 1	2	OFFICE & QUARTERS	1.5	25 (1)	R-32	12.70 (1/2)	6.35 (1/4)	220-230	1	60	7.7	INVERTER WALL MOUNTED TYPE INDOOR FREE BLOW FAN COIL UNIT COMPLETE WITH REMOTE WIRELESS, TEMPERATURE CONTROLLER, FAN SPEED SWITCH, EQUIPMENT SUPPORT AND STANDARD ACCESSORIES.

AIR COOLED CONDENSING UNIT (OUTDOOR UNIT)

MARK	QTY.	CAPACITY HP (TR)	EQUIPMENT SERVED	REFRIGERANT TYPE	REFRIGERANT PIPE CONNECTION GAS LINE mm (IN)	REFRIGERANT PIPE CONNECTION LIQUID LINE mm (IN)	ELECTRICAL DATA V	ELECTRICAL DATA PH	ELECTRICAL DATA HZ	NET WEIGHT KG	REMARKS
ACCU 1	2	1.5	FCU-2	R-32	12.70 (1/2)	6.35 (1/4)	220-230	1	60	19.9	INVERTER FLOOR MOUNTED AIR COOLED CONDENSER UNIT COMPLETE WITH CONDENSER FAN, HERMETIC COMPRESSOR, ELECTRICAL CONNECTION AND EQUIPMENT PAD. THE UNIT SHALL BE THE SAME MANUFACTURER OF FCU.

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	JCMC
CHECKED BY:	RUAJR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
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Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF POWERPLANT BUILDING)

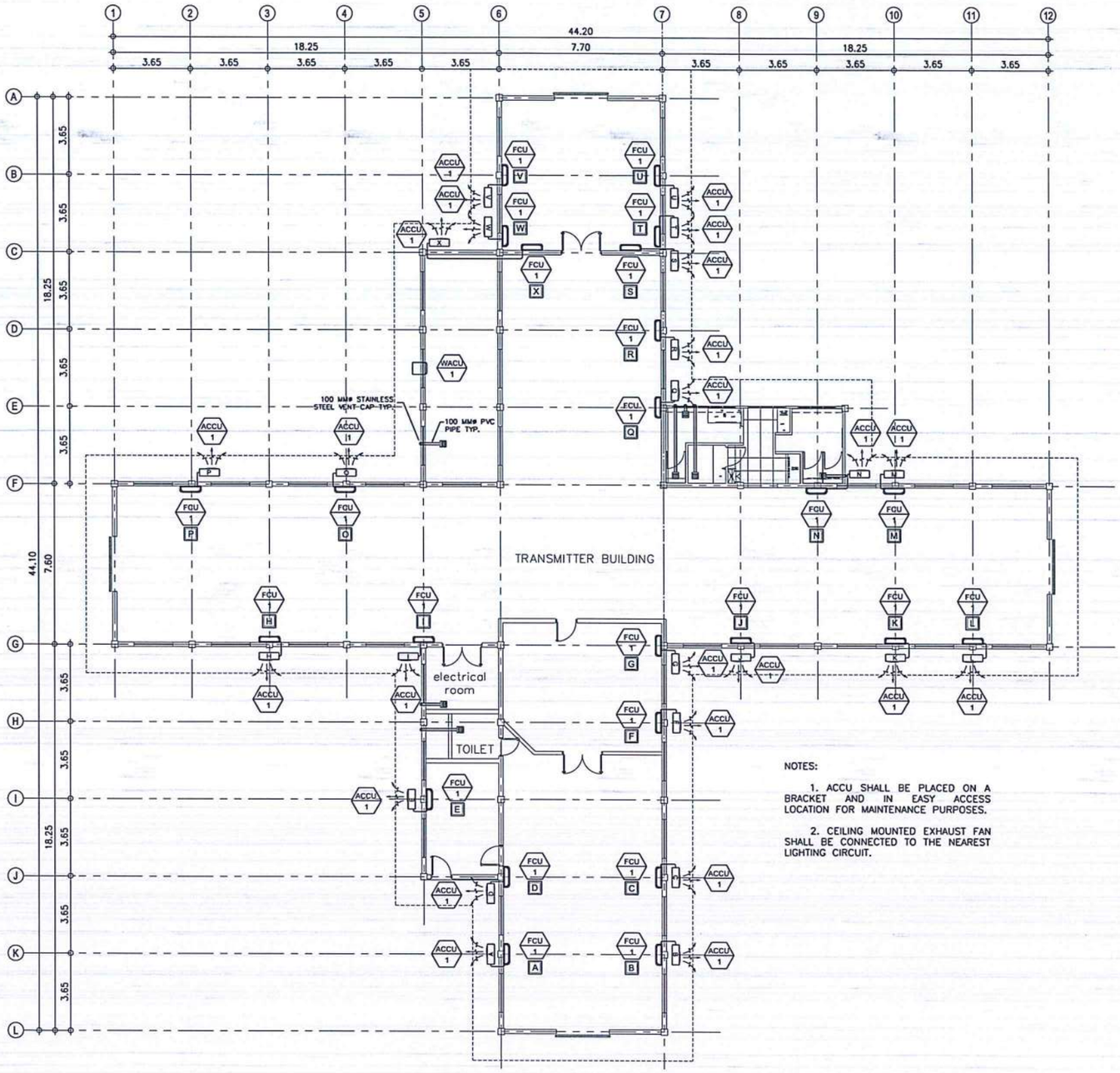
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
ACU & EXHAUST FAN LAYOUT
EQUIPMENT SCHEDULE

DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 1

LEGEND:

- ACCU 1 / A — AIR COOLED CONDENSING UNIT (INVERTER OUTDOOR UNIT, VER. SPECS) CAPITAL LETTER ON RECTANGLE DENOTES FCU CONTROLLED AND EQUIPMENT TAG NUMBER INDICATES TYPE OF ACCU.
- FCU 1 / A — FAN COIL UNIT (INDOOR UNIT, VER. SPECS) CAPITAL LETTER ON SQUARE CORRESPONDS TO THE ACCU AND EQUIPMENT TAG NUMBER INDICATES TYPE OF FCU
- WACU 1 — WINDOW TYPE ACU
- 12" CEILING MOUNTED EXHAUST FAN



NOTES:

1. ACCU SHALL BE PLACED ON A BRACKET AND IN EASY ACCESS LOCATION FOR MAINTENANCE PURPOSES.
2. CEILING MOUNTED EXHAUST FAN SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT.

1 / M-1 | M-1 ACU AND EXHAUST FAN LAYOUT
SCALE: NTS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
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Division Chief III, IDDD-ADMS

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ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF TRANSMITTER STATION BUILDING)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

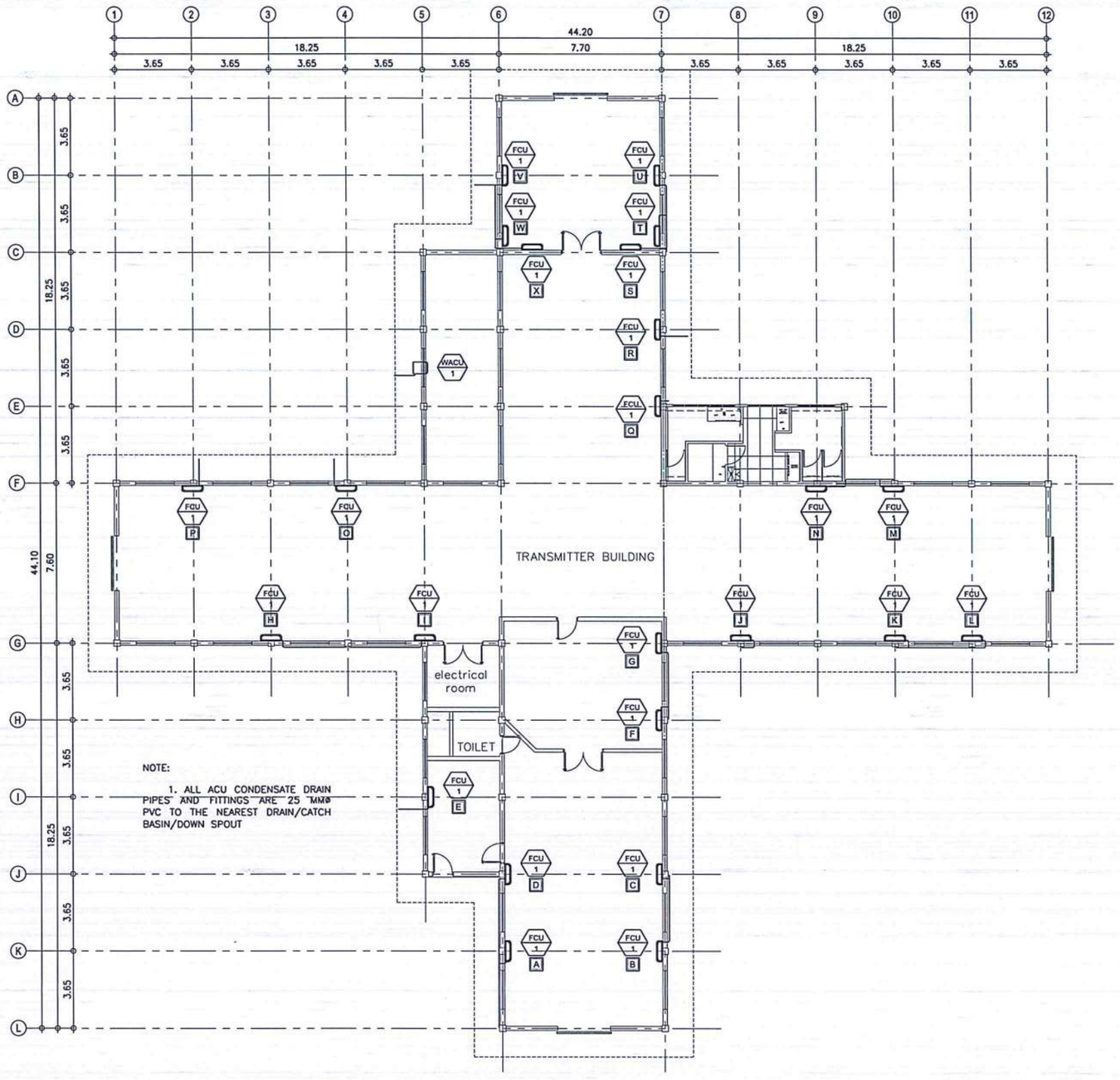
SHEET CONTENTS:
ACU & EXHAUST FAN LAYOUT

DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 1

LEGEND:

FCU 1 A — FAN COIL UNIT (INDOOR UNIT, VER. SPECS) CAPITAL LETTER ON SQUARE CORRESPONDS TO THE ACCU AND EQUIPMENT TAG NUMBER INDICATES TYPE OF FCU

WACU 1 — WINDOW TYPE ACU



NOTE:

1. ALL ACU CONDENSATE DRAIN PIPES AND FITTINGS ARE 25 MMØ PVC TO THE NEAREST DRAIN/CATCH BASIN/DOWN SPOUT

1 / M-2 | M-2 ACU CONDENSATE DRAIN PIPE LAYOUT

SCALE: NTS

REPUBLIC OF THE PHILIPPINES

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
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DRAWN BY:	JCMC
CHECKED BY:	RUAJR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF TRANSMITTER STATION BUILDING)

LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

ACU CONDENSATE DRAIN PIPE LAYOUT

DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 2

GENERAL NOTES:

1. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTINGS, DUCT FITTINGS, VALVES, DAMPERS, HANGERS/SUPPORTS, ETC.. ALL SUCH ITEM WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE ENGINEER AND THE OWNER.
2. CONTRACTOR SHALL BE RESPONSIBLE IN VERIFYING AND COORDINATING, THE FOLLOWING IN ACCORDANCE WITH MANUFACTURER'S DATA AND RECOMMENDATIONS.
   - A. FLOOR, ROOF AND WALL OPENINGS
   - B. EQUIPMENT PADS/PEDESTALS
   - C. CONDENSATE DRAIN LINES
3. ALL PIPE SIZES ARE IN MILLIMETER (mm) UNLESS OTHERWISE INDICATED.
4. ALL STRUCTURAL AND ARCHITECTURAL FINISHES DAMAGED DURING THE COURSE OF WORK SHALL BE RESTORED TO IT'S ORIGINAL CONDITION OR AS APPROVED BY OWNER.
5. PROVIDE SERVICE ACCESS & CLEARANCE TO CHANGE AIR FILTER ELEMENT FOR AC EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
6. ALL INSULATED MECHANICAL PIPES THAT ARE EXPOSED SHALL BE CLADDED WITH ALUMINUM SHEET. CLADDING SHALL BE MACHINE/SHOP FABRICATED.
7. CONTRACTOR/VENDOR SHOULD BE FAMILIAR WITH THE ACTUAL SITE CONDITION AND INSTALLATION TO VERIFY IF THE WORK IS IN CONFORMANCE TO MANUFACTURER RECOMMENDATION AND SHOULD RECTIFY IF SUCH CONDITION EXIST.
8. THE CONTRACTOR SHALL COORDINATE W/ THE STRUCTURAL, SANITARY, ARCHITECTURAL AND ELECTRICAL REGARDING THE ROUGHING-INS OF FUTURE AIR CONDITIONING UNITS. ALL EMBEDDED ITEMS SHALL BE INSTALLED IN PLACE UNDER THIS CONTRACT.
9. FINAL EQPT. TAG NUMBERING SHALL BE MADE BY THE OWNER'S ENGINEERING DEPARTMENT FOR CASE OF IDENTIFICATION OF INDIVIDUAL UNIT.
10. INSTALLATION OF ALL WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, IMPROPERLY SET WORK OR FINISH AS DETERMINED BY THE ARCHITECT SHALL BE REMOVED AND REPLACED AT NO EXTRA COST.
11. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND CLEAN.
12. DEVIATION AND REVISIONS FROM PLAN SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.
13. ALL NECESSARY GOVERNMENT PERMIT SHALL BE SECURED AND PAID FOR THE CONTRACTOR.
14. ALL MECHANICAL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST MECHANICAL ENGINEER'S CODE ASVE, ASHRAE AND SMACNA STANDARD.
15. ALL A/C AND VENTILATING EQUIPMENT CONTROL PANEL SWITCH AND CIRCUIT BREAKERS ARE PROVIDED BY THE MECHANICAL CONTRACTOR.
16. THE MECHANICAL CONTRACTOR SHALL CONDUCT TESTING, BALANCING AND COMMISSIONING OF ALL A/C AND VENTILATING EQUIPMENT.

FAN COIL UNIT (INDOOR UNIT)

MARK	QTY.	LOCATION / AREA SERVED	COOLING LOAD/UNIT HP (TR)	DRAIN LINE mm (IN)	REFRIGERANT			ELECTRICAL DATA			NET WEIGHT KG	REMARKS
					TYPE	PIPE CONNECTION		V	PH	HZ		
						GAS LINE mm (IN)	LIQUID LINE mm (IN)					
FCU 1	24	ALL AREAS	2.5	25 (1)	R-32	12.70 (1/2)	6.35 (1/4)	220-230	1	60	13	INVERTER WALL MOUNTED TYPE INDOOR FREE BLOW FAN COIL UNIT COMPLETE WITH REMOTE WIRELESS, TEMPERATURE CONTROLLER, FAN SPEED SWITCH, EQUIPMENT SUPPORT AND STANDARD ACCESSORIES.

AIR COOLED CONDENSING UNIT (OUTDOOR UNIT)

MARK	QTY.	CAPACITY HP (TR)	EQUIPMENT SERVED	REFRIGERANT			ELECTRICAL DATA			NET WEIGHT KG	REMARKS
				TYPE	PIPE CONNECTION		V	PH	HZ		
					GAS LINE mm (IN)	LIQUID LINE mm (IN)					
ACCU 1	24	2.5	FCU-1	R-32	12.70 (1/2)	6.35 (1/4)	220-230	1	60	29	INVERTER FLOOR MOUNTED AIR COOLED CONDENSER UNIT COMPLETE WITH CONDENSER FAN, HERMETIC COMPRESSOR, ELECTRICAL CONNECTION AND EQUIPMENT PAD. THE UNIT SHALL BE THE SAME MANUFACTURER OF FCU.

INVERTER WINDOW TYPE AIR-CONDITIONING UNIT

MARK	QTY.	LOCATION / AREA SERVED	COOLING LOAD/UNIT HP (TR)	REFRIGERANT TYPE	ELECTRICAL DATA			NET WEIGHT KG	REMARKS
					V	PH	HZ		
WACU 1	1	PANTRY	1.0	R-32	220-230	1	60	42	INVERTER WINDOW TYPE AIR-CONDITIONING UNIT COMPLETE WITH REMOTE CONTROLLER, BRACKET AND OTHER STANDARD ACCESSORIES

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	JCMC
CHECKED BY:	RUAJR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

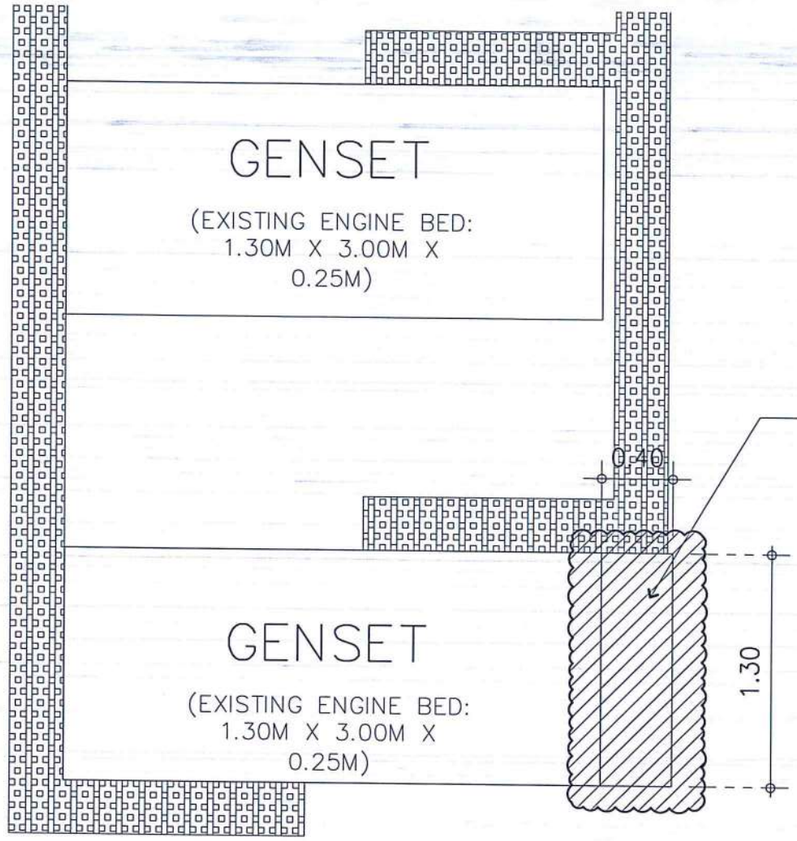
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF TRANSMITTER STATION BUILDING)

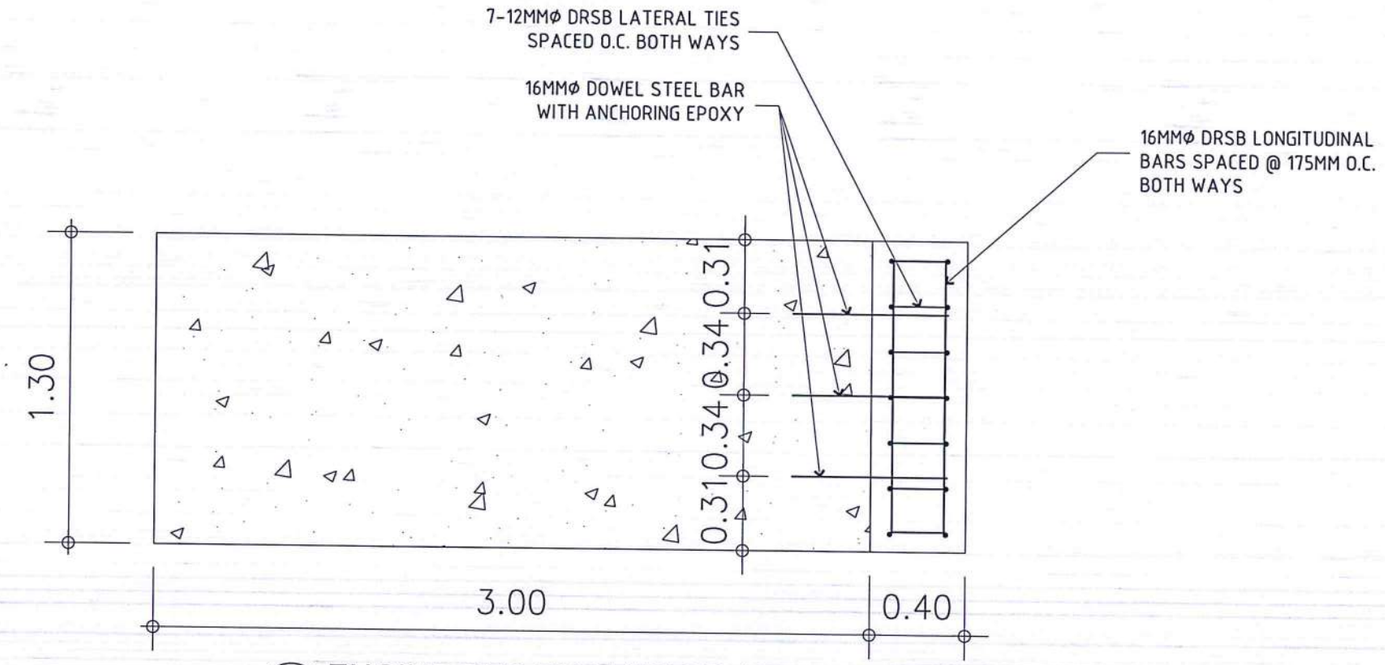
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
GENERAL NOTES
EQUIPMENT SCHEDULE

DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 3



1 A-22/A-22 ENGINE BED EXPANSION
SCALE: 1:20 MTS.



2 A-22/A-22 ENGINE BED EXPANSION (SPOT DETAILS)
SCALE: 1:20 MTS.

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	RCJ	
CHECKED BY:	SJD	

REVIEWED BY:
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Director General

NOTES/REVISIONS:

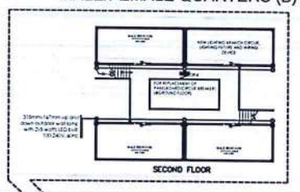
PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF CAAP QUARTERS - 2)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

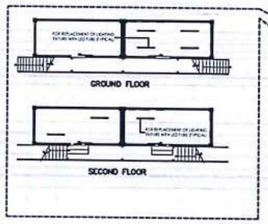
SHEET CONTENTS:
- ENGINE BED EXPANSION DETAILS

DRAWING SCALE:	SHEET NO:
AS SHOWN	S - 02

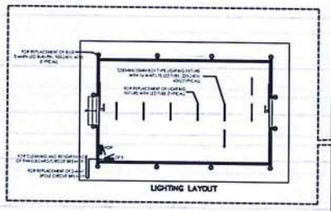
MALE/FEMALE QUARTERS (B)



TOILET/LAUNDRY AREA (A)

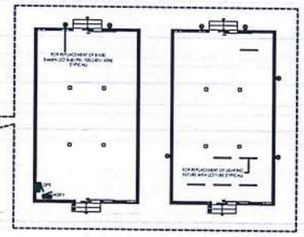


OFFICE 1

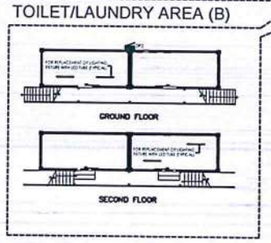


TOILET/LAUNDRY AREA (C)

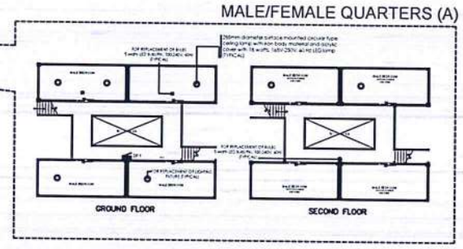
OFFICE 2 & 3



TOILET/LAUNDRY AREA (B)



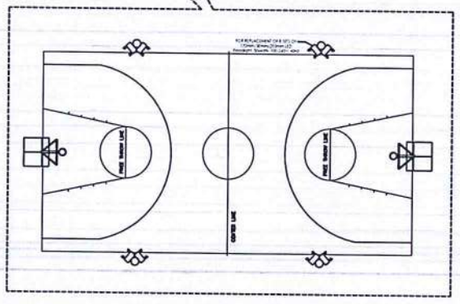
MALE/FEMALE QUARTERS (A)



BASKETBALL COURT
(E X I S T I N G)

GUARD HOUSE

S I D E W A L K



REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	JPCJR	
CHECKED BY:		

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED–ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES

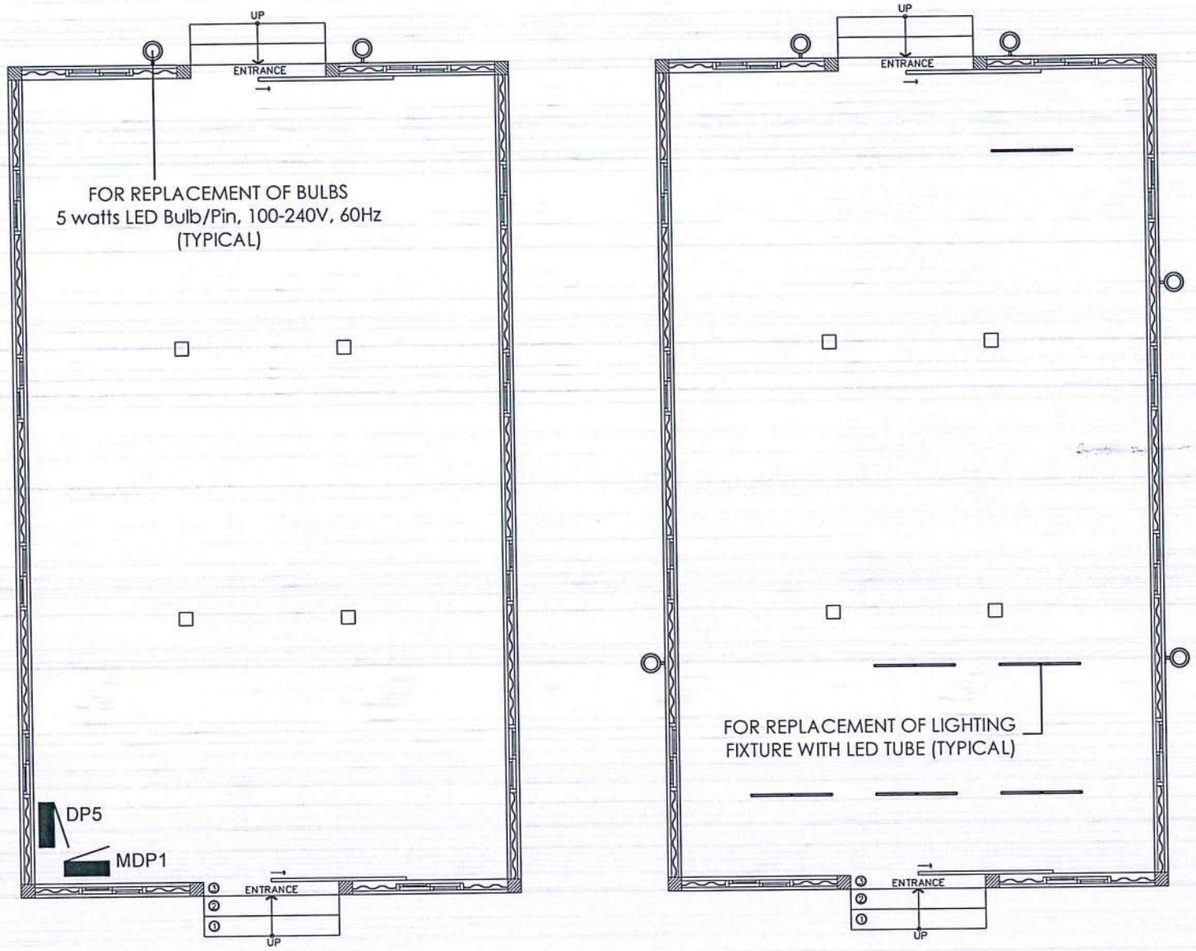
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

SITE DEVELOPMENT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-0



OFFICE 2 & 3
LIGHTING LAYOUT
SCALE: 1: 50MTS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

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CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

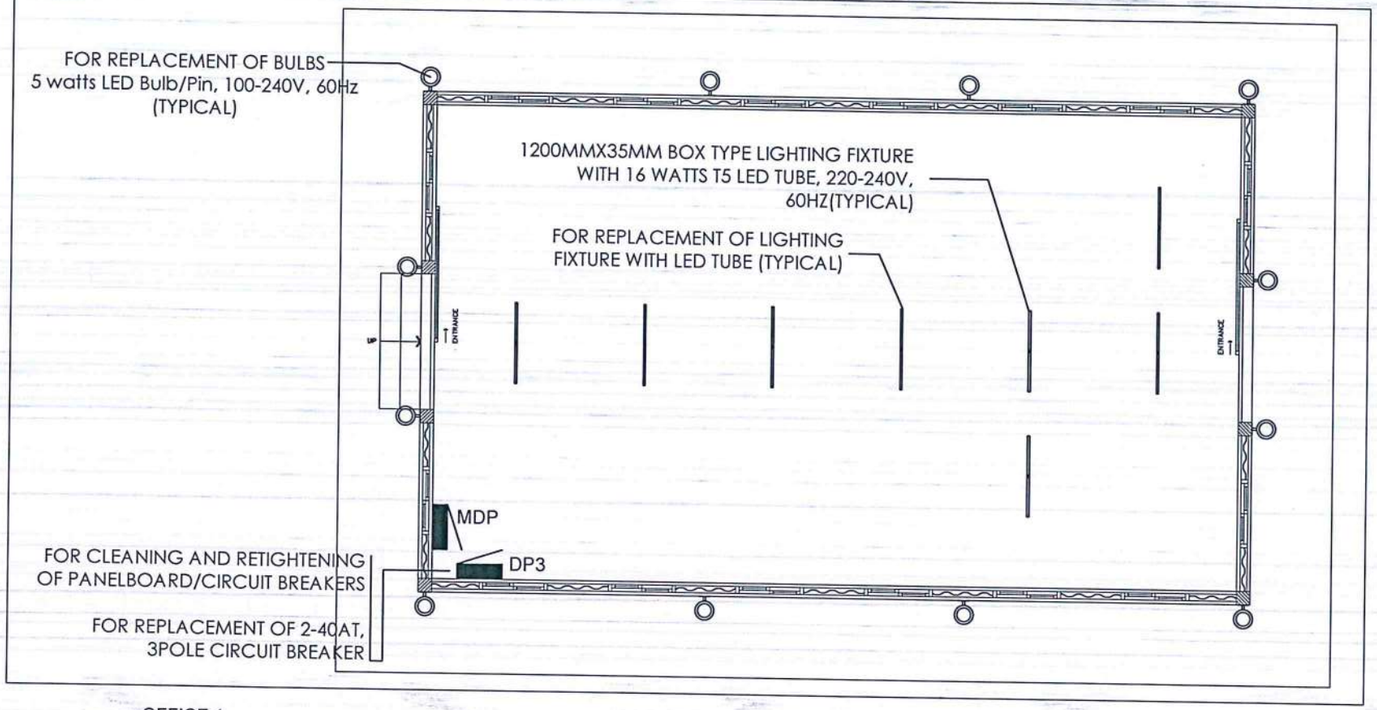
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF OFFICES)

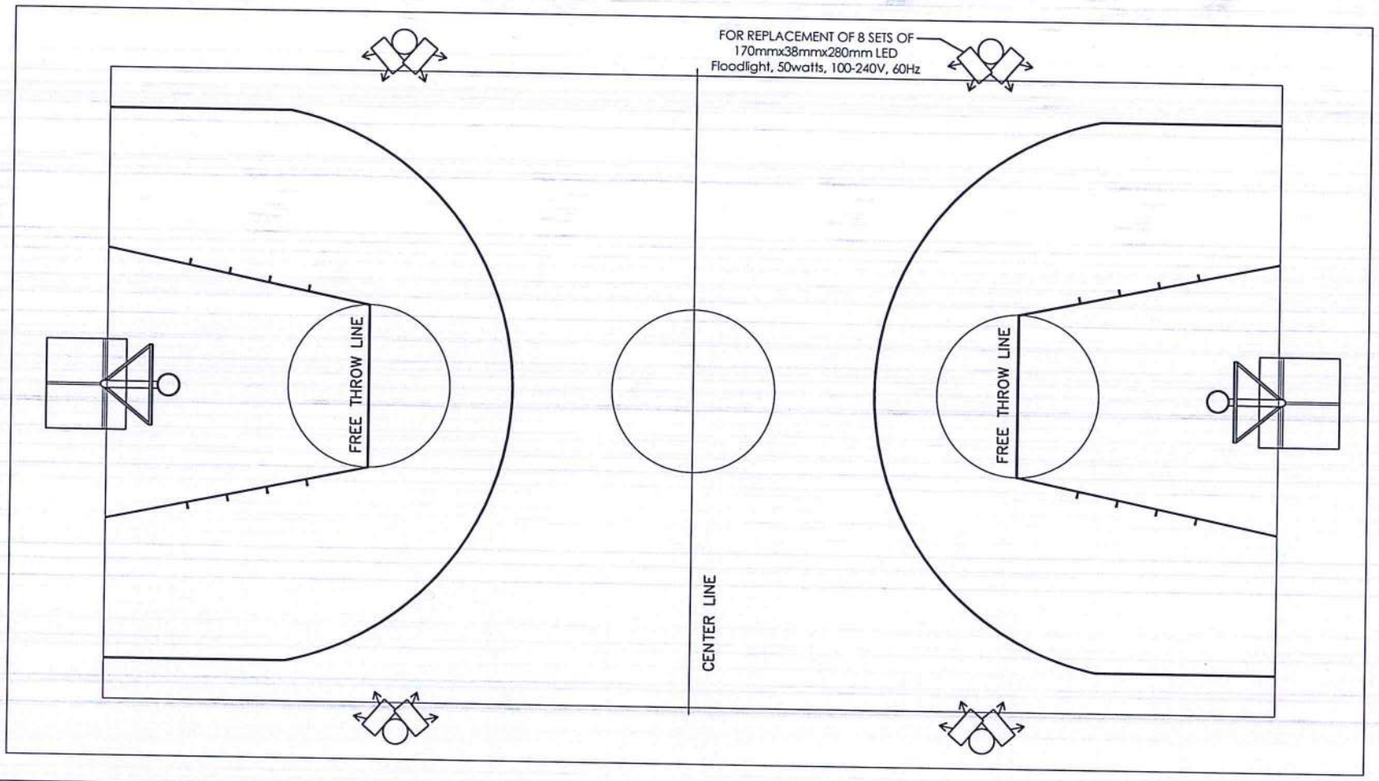
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
LIGHTING LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-1



OFFICE 1
1/E1 LIGHTING LAYOUT
SCALE: 1:50MTS



BASKETBALL COURT
2/E1 LIGHTING LAYOUT
SCALE: 1:75MTS

REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

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Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF OFFICES)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

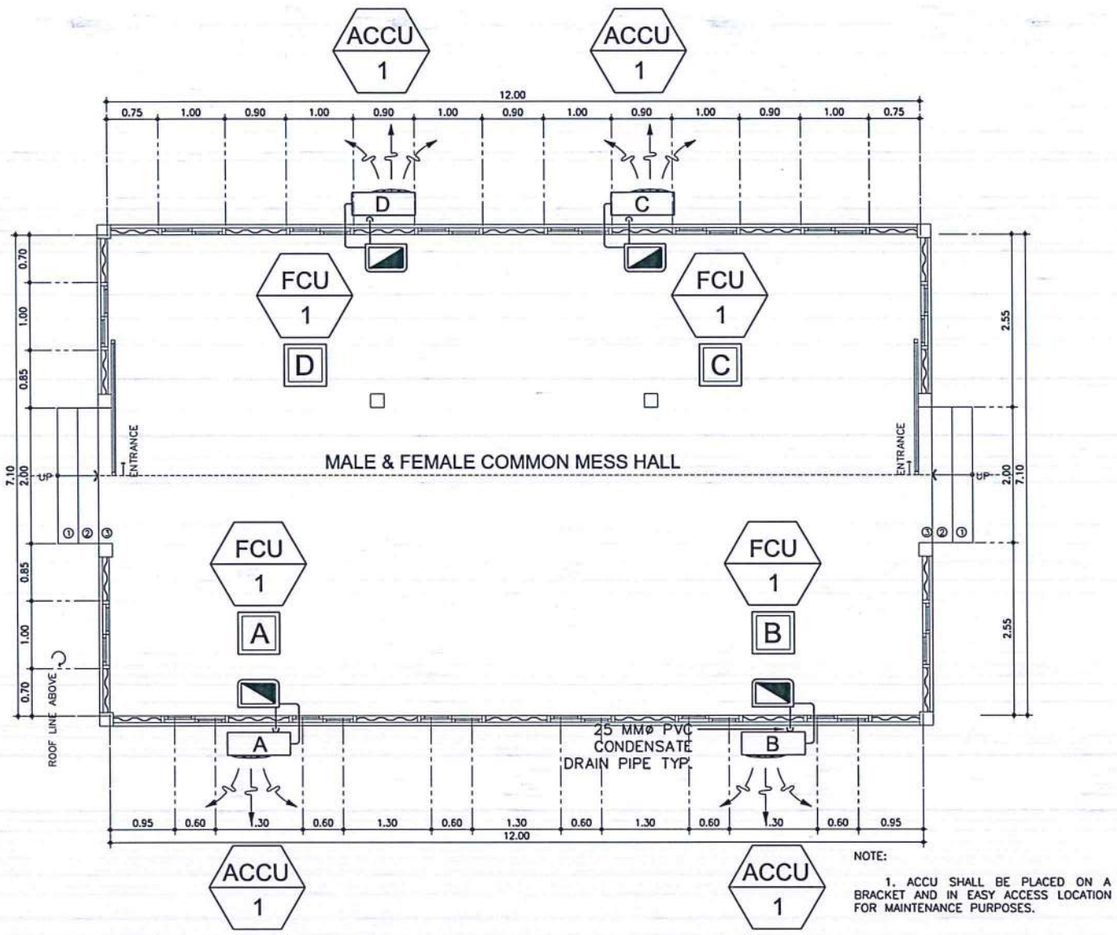
SHEET CONTENTS:
LIGHTING LAYOUT

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-2

LEGEND:

ACCU 1 / A — AIR COOLED CONDENSING UNIT (INVERTER OUTDOOR UNIT, VER. SPECS) CAPITAL LETTER ON RECTANGLE DENOTES FCU CONTROLLED AND EQUIPMENT TAG NUMBER INDICATES TYPE OF ACCU.

FCU 1 / A — FAN COIL UNIT (INDOOR UNIT, VER. SPECS) CAPITAL LETTER ON SQUARE CORRESPONDS TO THE ACCU AND EQUIPMENT TAG NUMBER INDICATES TYPE OF FCU



NOTE:

1. ACCU SHALL BE PLACED ON A BRACKET AND IN EASY ACCESS LOCATION FOR MAINTENANCE PURPOSES.

OFFICE 1

1 / M-1 — AIR-CONDITIONING LAYOUT

SCALE: NTS

FAN COIL UNIT (INDOOR UNIT)

MARK	QTY.	LOCATION / AREA SERVED	COOLING LOAD/UNIT TR	DRAIN LINE mm (IN)	REFRIGERANT			ELECTRICAL DATA			NET WEIGHT KG	REMARKS
					TYPE	PIPE CONNECTION						
						GAS LINE mm (IN)	LIQUID LINE mm (IN)	V	PH	HZ		
FCU 1	8	OFFICES 1, 2 & 3	5.0	25 (1)	R-410a	19.05 (3/4)	9.52 (3/8)	220-230	3	60	57.7	INVERTER FLOOR STANDING TYPE INDOOR FREE BLOW FAN COIL UNIT COMPLETE WITH REMOTE WIRELESS, TEMPERATURE CONTROLLER, FAN SPEED SWITCH, EQUIPMENT SUPPORT AND STANDARD ACCESSORIES.

AIR COOLED CONDENSING UNIT (OUTDOOR UNIT)

MARK	QTY.	CAPACITY TR	EQUIPMENT SERVED	REFRIGERANT			ELECTRICAL DATA			NET WEIGHT KG	REMARKS
				TYPE	PIPE CONNECTION						
					GAS LINE mm (IN)	LIQUID LINE mm (IN)	V	PH	HZ		
ACCU 1	8	5.0	FCU-1	R-410a	19.05 (3/4)	9.52 (3/8)	220-230	3	60	91.9	INVERTER FLOOR MOUNTED AIR COOLED CONDENSER UNIT COMPLETE WITH CONDENSER FAN, HERMETIC COMPRESSOR, ELECTRICAL CONNECTION AND EQUIPMENT PAD. THE UNIT SHALL BE THE SAME MANUFACTURER OF FCU.

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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RAUL R. CRUCENA
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ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF OFFICES 1, 2 & 3)

LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

OFFICE 1 AIR-CONDITIONING LAYOUT

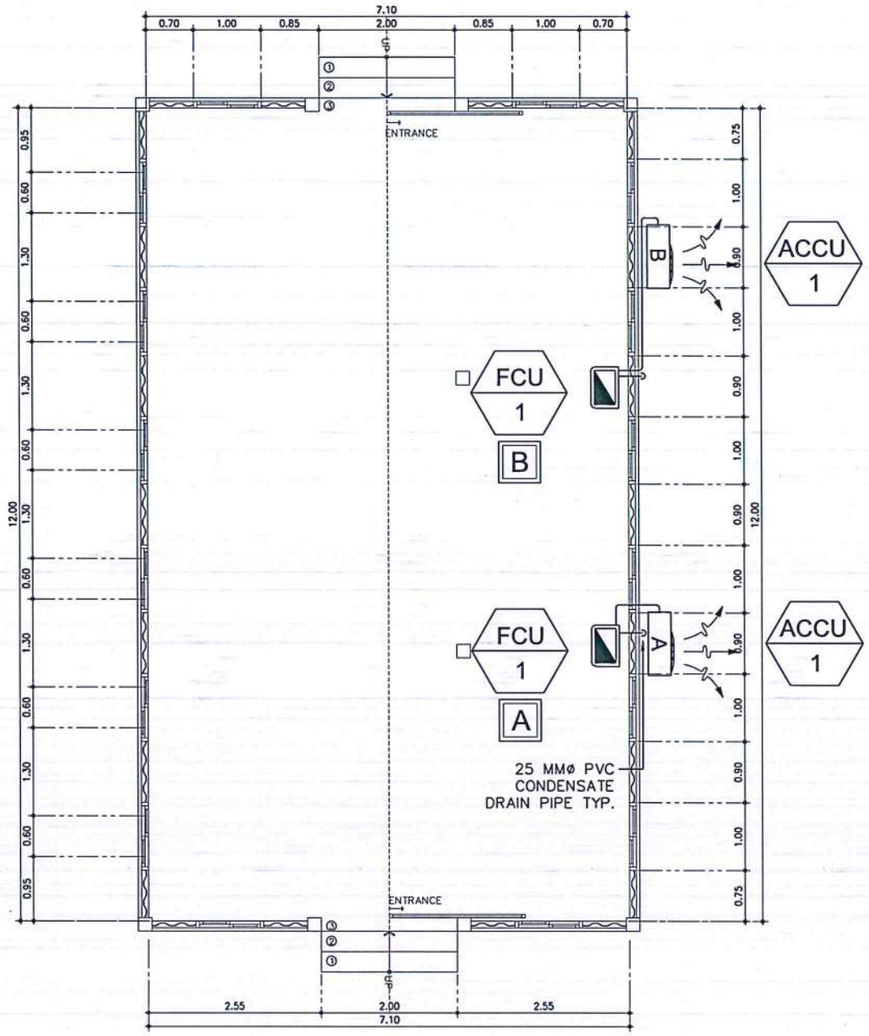
EQUIPMENT SCHEDULE

DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 1

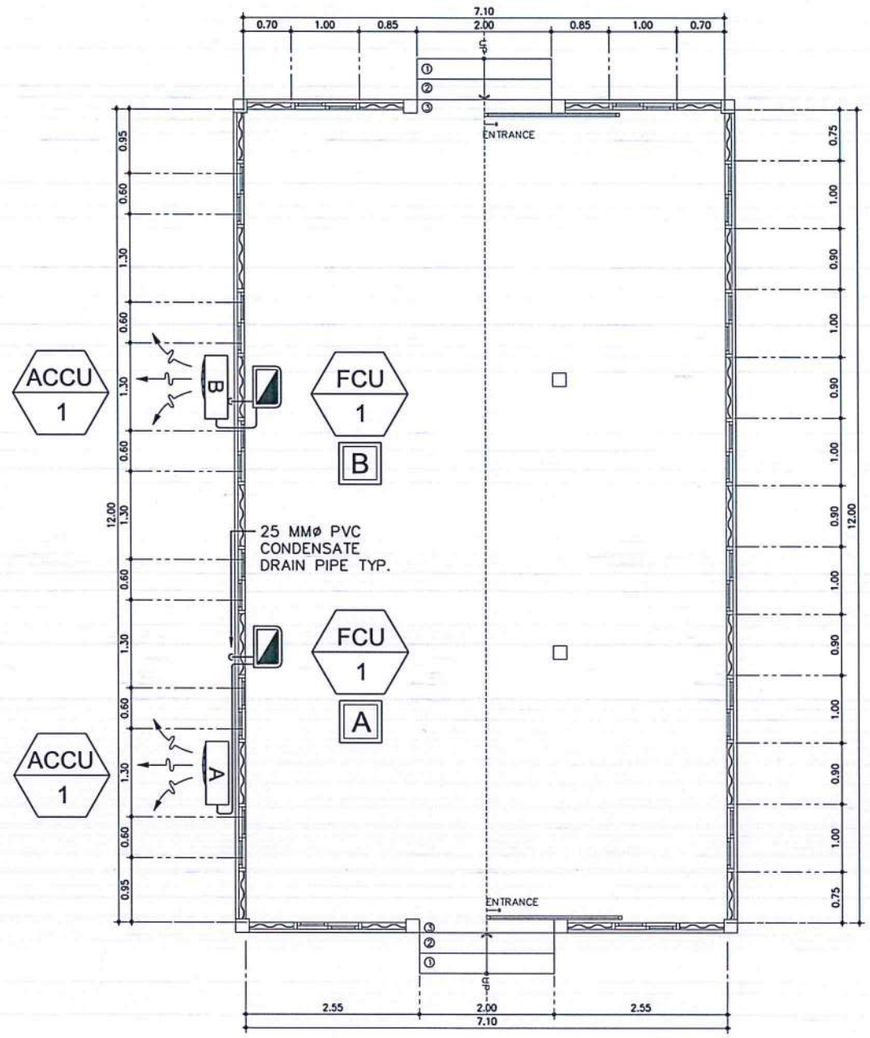
LEGEND:

ACCU 1 / A — AIR COOLED CONDENSING UNIT (INVERTER OUTDOOR UNIT, VER. SPECS) CAPITAL LETTER ON RECTANGLE DENOTES FCU CONTROLLED AND EQUIPMENT TAG NUMBER INDICATES TYPE OF ACCU.

FCU 1 / A — FAN COIL UNIT (INDOOR UNIT, VER. SPECS) CAPITAL LETTER ON SQUARE CORRESPONDS TO THE ACCU AND EQUIPMENT TAG NUMBER INDICATES TYPE OF FCU



OFFICE 2
1 / M-2 | M-2 AIR-CONDITIONING LAYOUT
SCALE: NTS



OFFICE 3
2 / M-2 | M-2 AIR-CONDITIONING LAYOUT
SCALE: NTS

REPUBLIC OF THE PHILIPPINES

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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APPROVED:
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Director General

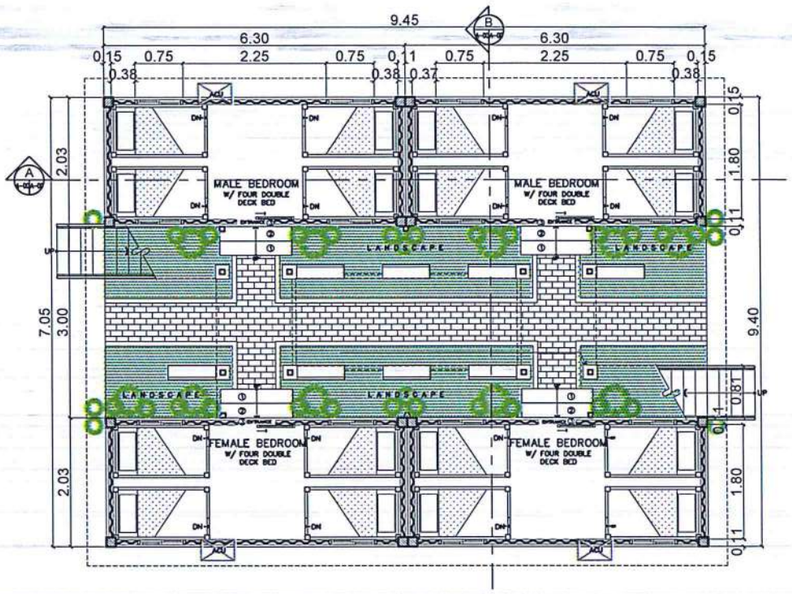
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF OFFICES 1, 2 & 3)

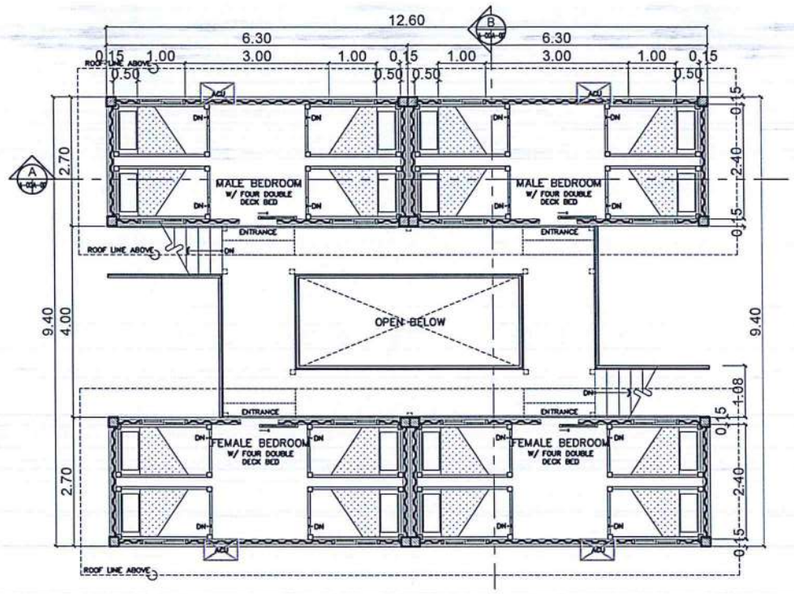
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
OFFICE 2 AIR-CONDITIONING LAYOUT
OFFICE 3 AIR-CONDITIONING LAYOUT

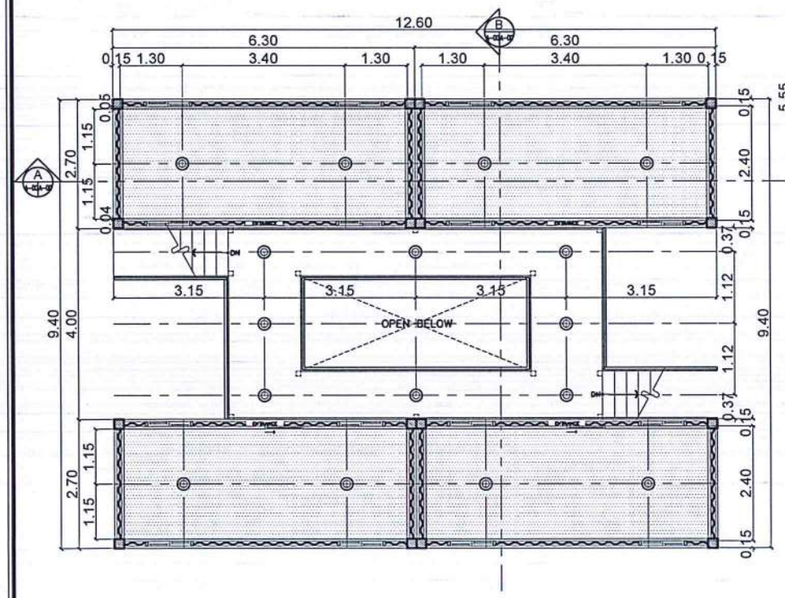
DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 2



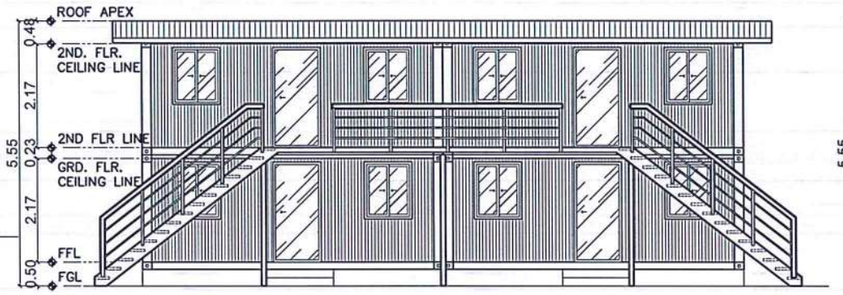
REHABILITATION OF 2-STOREY LIVING QUARTERS
1 / A-01A-00 EXISTING GROUND FLOOR PLAN
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY LIVING QUARTERS
1 / A-01A-00 EXISTING SECOND FLOOR PLAN
SCALE: 1 : 75 M

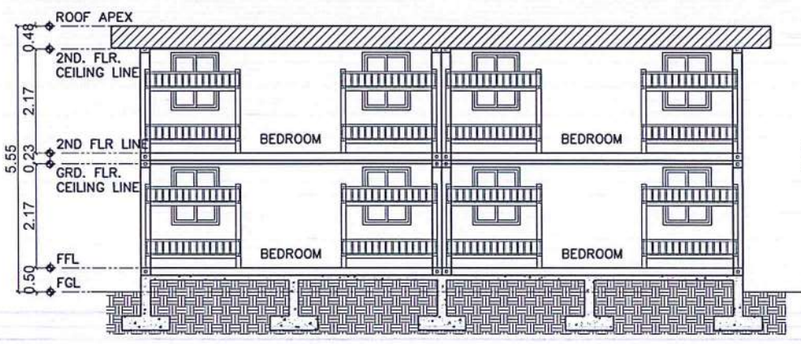


REHABILITATION OF 2-STOREY LIVING QUARTERS
1 / A-01A-00 EXISTING REFLECTED CEILING PLAN
SCALE: 1 : 75 M

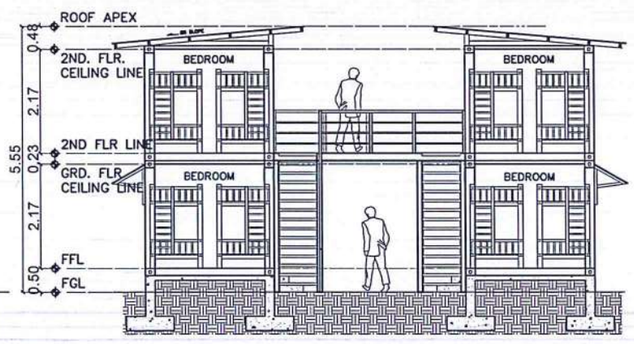


REHABILITATION OF 2-STOREY LIVING QUARTERS
1 / A-01A-00 EXISTING FRONT ELEVATION
SCALE: 1 : 75 M

REHABILITATION OF 2-STOREY LIVING QUARTERS
1 / A-01A-00 EXISTING LEFT-SIDE ELEVATION
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY LIVING QUARTERS
1 / A-01A-00 EXISTING LONGITUDINAL SECTION THRU A
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY LIVING QUARTERS
1 / A-01A-00 EXISTING CROSS SECTION THRU B
SCALE: 1 : 75 M

REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (jangz27)
CHECKED BY:	EJDJR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

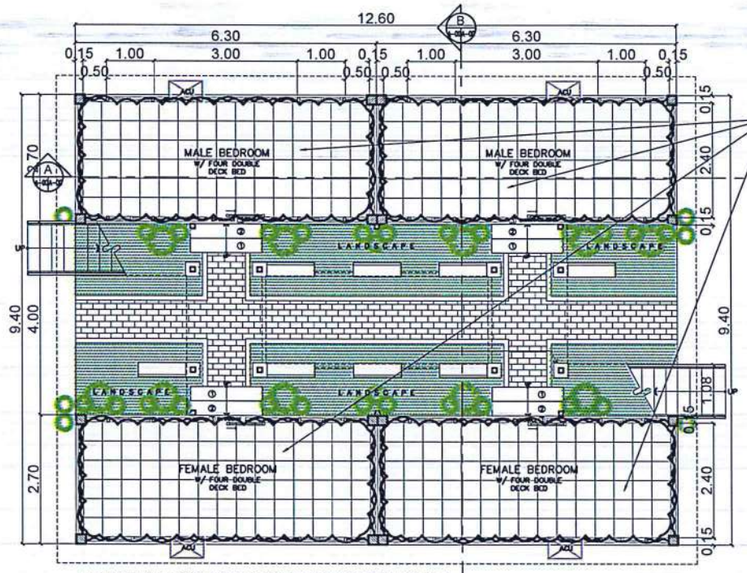
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF 2-STOREY LIVING QUARTERS

LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
EXISTING PLAN:
- EXISTING GROUND FLOOR PLAN
- EXISTING SECOND FLOOR PLAN
- EXISTING FRONT ELEVATION
- EXISTING LEFT-SIDE ELEVATION
- EXISTING LONGITUDINAL SECTION THRU A
- EXISTING CROSS SECTION THRU B

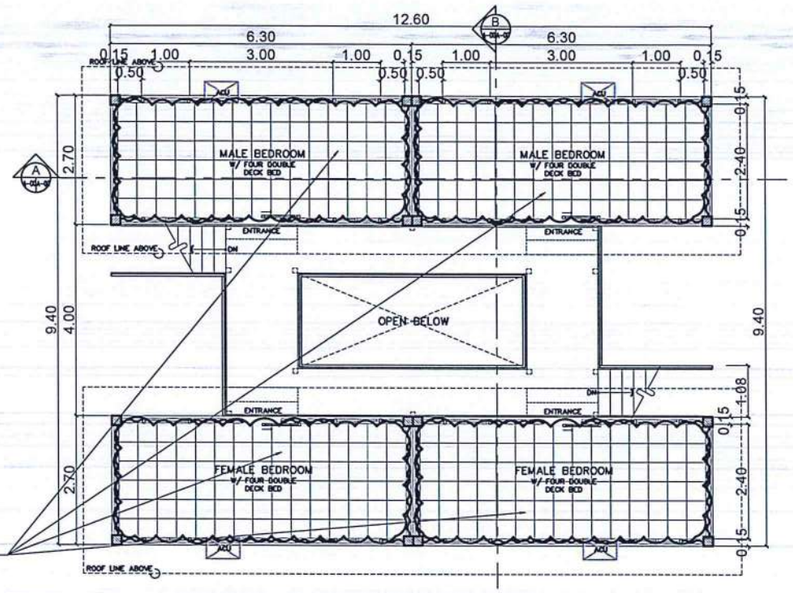
DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	45



REHABILITATION OF 2-STOREY LIVING QUARTERS

1 GROUND FLOOR DEMOLITION PLAN

A-01/A-00 SCALE: 1 : 75 M



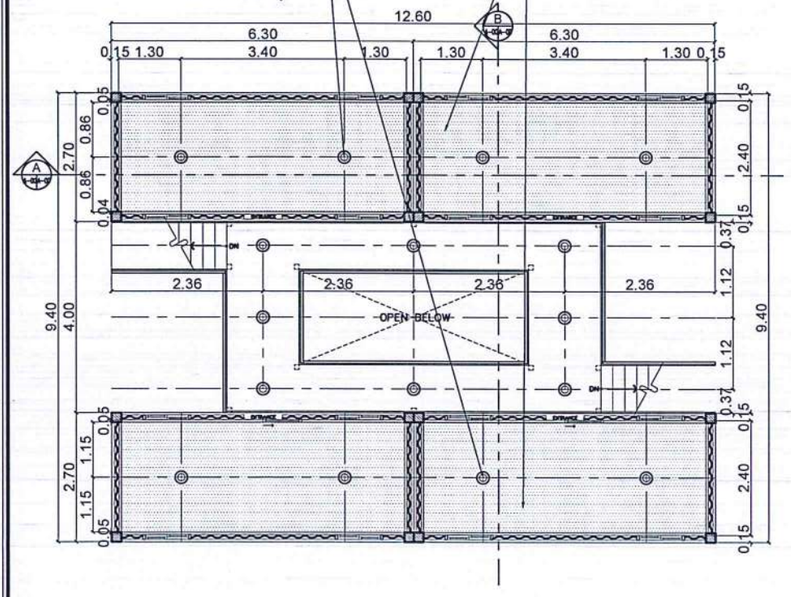
REHABILITATION OF 2-STOREY LIVING QUARTERS

1 SECOND FLOOR DEMOLITION PLAN

A-01/A-00 SCALE: 1 : 75 M

ALL EXISTING ELECTRICAL FIXTURE AND WIRES WILL BE RE-INSTALL EXCEPT FOR DAMAGE FIXTURES (SEE ELECTRICAL PLANS FOR REFERENCE)

DEMOLITION OF EXISTING CEILING AND REPLACE WITH 12MM THICK FICEM BOARD AND PAINTED WITH SEMI-GLOSS PAINT FINISH



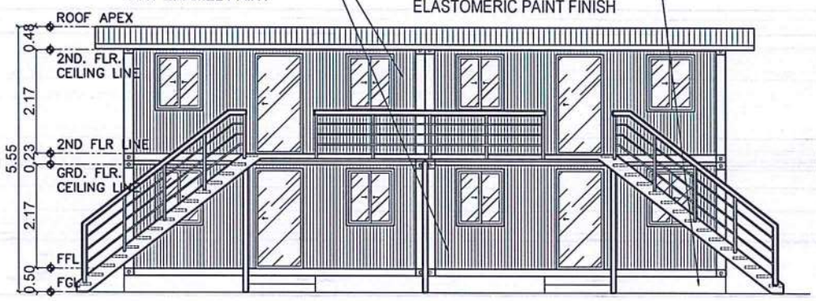
TYPICAL GROUND FLOOR AND SECOND FLOOR

1 REFLECTED CEILING DEMOLITION PLAN

A-01/A-00 SCALE: 1 : 75 M

RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS AND ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT

RE-PAINTING OF EXISTING CONCRETE FOUNDATION OF CONTAINER VAN WITH ELASTOMERIC PAINT FINISH

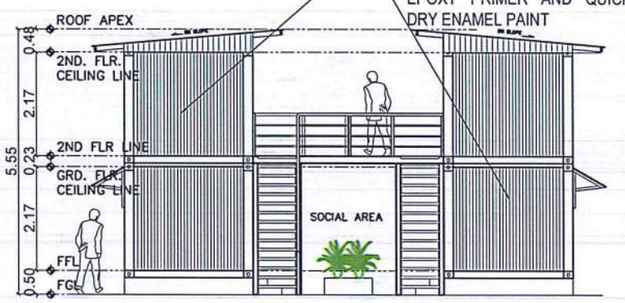


REHABILITATION OF 2-STOREY LIVING QUARTERS

1 FRONT ELEVATION DEMOLITION

A-01/A-00 SCALE: 1 : 75 M

RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS AND ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



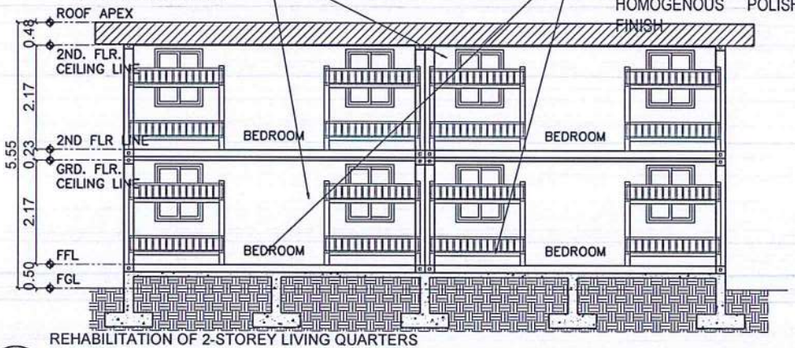
REHABILITATION OF 2-STOREY LIVING QUARTERS

1 LEFT-SIDE ELEVATION DEMOLITION

A-01/A-00 SCALE: 1 : 75 M

RE-PAINTING OF EXISTING CONTAINER VAN INTERIOR WALLS

REMOVE EXISTING FLOORING AND REPLACE WITH CONCRETE SLAB WITH 600MM X 600MM HOMOGENOUS POLISH TILES FINISH

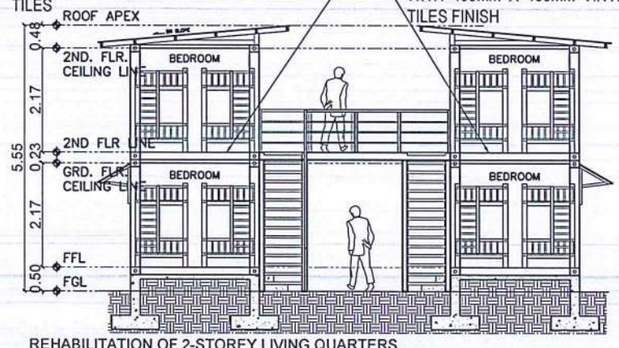


REHABILITATION OF 2-STOREY LIVING QUARTERS

1 LONGITUDINAL SECTION THRU A DEMOLITION

A-01/A-00 SCALE: 1 : 75 M

REMOVE EXISTING SECOND LEVEL FLOORING. REPLACE FLOOR JOIST AND FLOORING WITH 400MM X 400MM VINYL TILES FINISH



REHABILITATION OF 2-STOREY LIVING QUARTERS

1 CROSS SECTION THRU B DEMOLITION

A-01/A-00 SCALE: 1 : 75 M

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APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF 2-STOREY LIVING QUARTERS

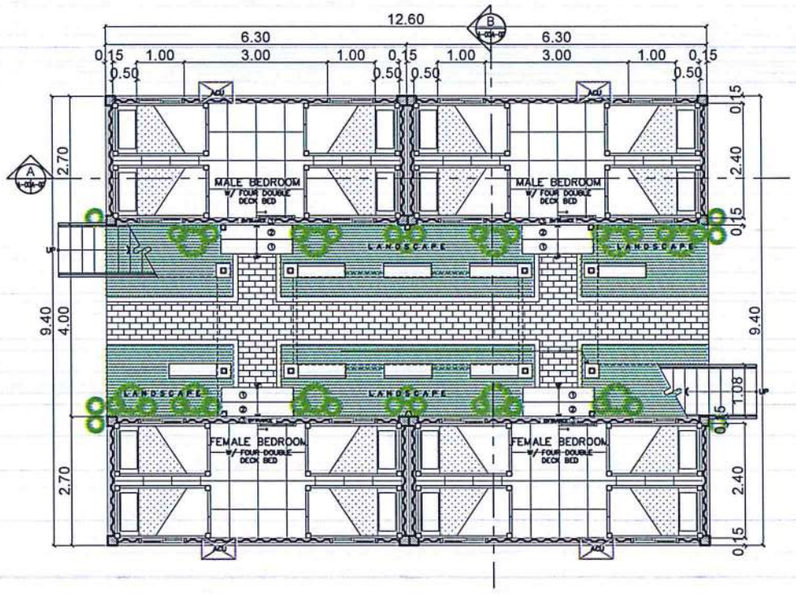
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:

DEMOLITION PLANS:
- GROUND FLOOR DEMOLITION PLAN
- SECOND FLOOR DEMOLITION PLAN
- REFLECTED CEILING DEMOLITION PLAN
- FRONT ELEVATION DEMOLITION
- LEFT-SIDE ELEVATION DEMOLITION
- LONGITUDINAL SECTION THRU ADEMOLITION
- CROSS SECTION THRU B DEMOLITION

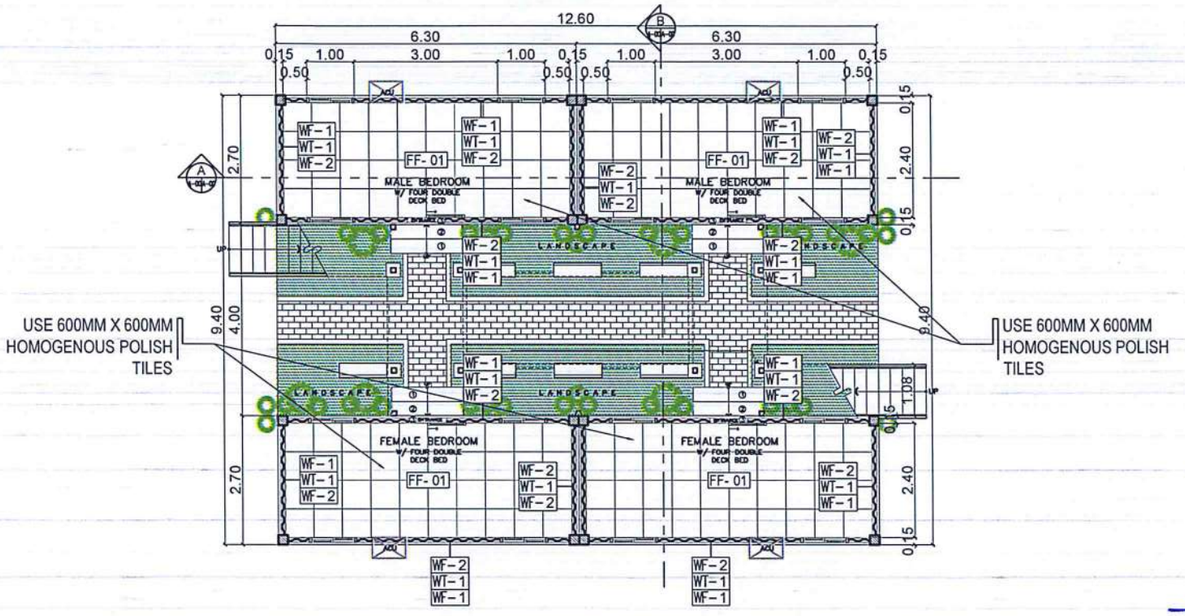
DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	46



REHABILITATION OF 2-STOREY LIVING QUARTERS

1 / A-01/A-00 GROUND FLOOR PLAN

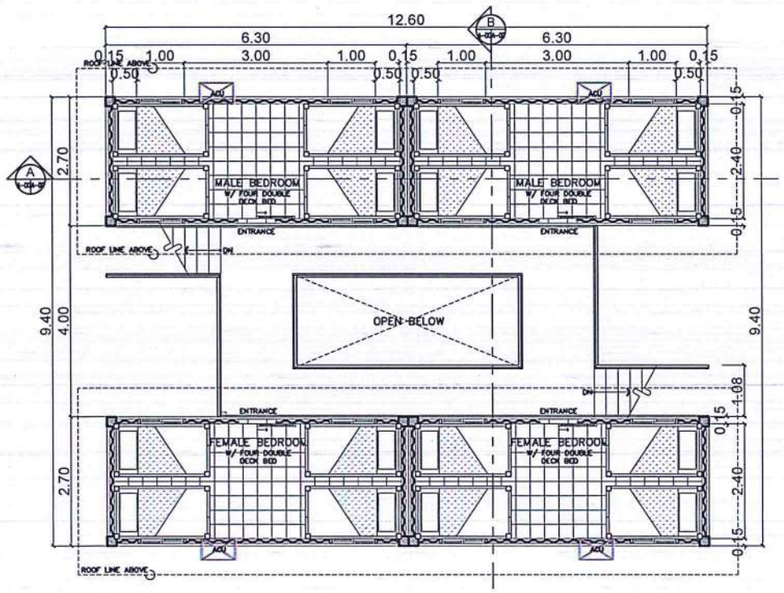
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY LIVING QUARTERS

1 / A-01/A-00 GROUND FLOOR DETAILED PLAN

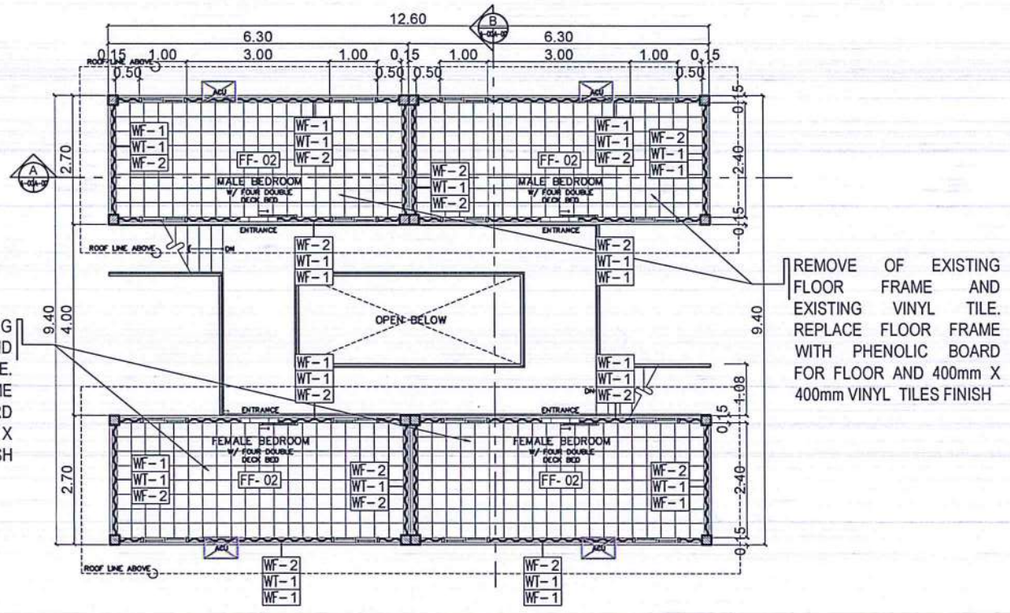
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY LIVING QUARTERS

1 / A-01/A-00 SECOND FLOOR PLAN

SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY LIVING QUARTERS

1 / A-01/A-00 SECOND FLOOR DETAILED PLAN

SCALE: 1 : 75 M

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INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
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CHECKED BY:	EJDJR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

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RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF 2-STOREY LIVING QUARTERS

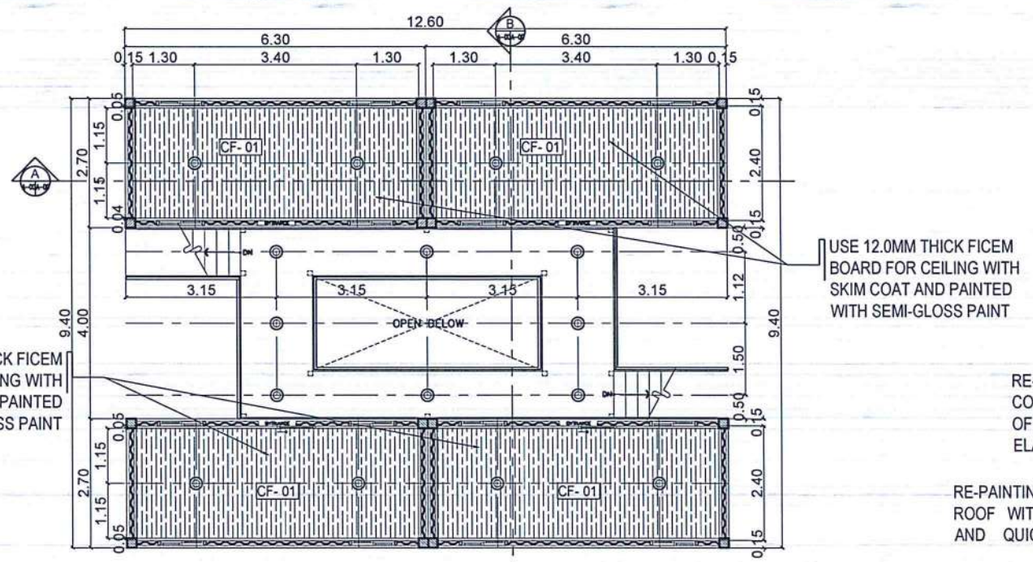
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:

PROVISION PLANS:
GROUND FLOOR PLAN
SECOND FLOOR PLAN
GROUND FLOOR DETAILED PLAN
SECOND FLOOR DETAILED PLAN

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	47



USE 12.0MM THICK FICEM BOARD FOR CEILING WITH SKIM COAT AND PAINTED WITH SEMI-GLOSS PAINT

USE 12.0MM THICK FICEM BOARD FOR CEILING WITH SKIM COAT AND PAINTED WITH SEMI-GLOSS PAINT

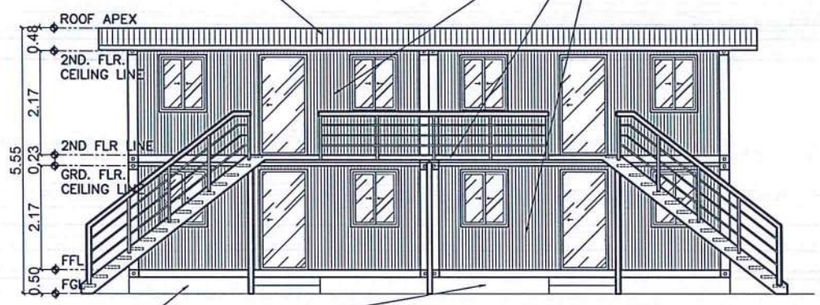
TYPICAL GROUND FLOOR AND SECOND FLOOR

1 A-01/A-00 **REFLECTED CEILING PLAN**

SCALE: 1 : 75 M

RE-PAINTING OF EXISTING ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT

RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



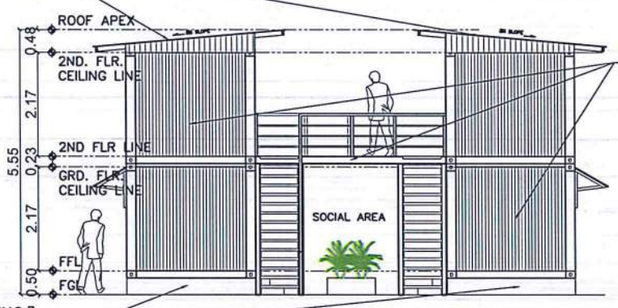
RE-PAINTING OF EXISTING CONCRETE FOUNDATION OF CONTAINER VAN WITH ELASTOMERIC PAINT FINISH

REHABILITATION OF 2-STOREY LIVING QUARTERS

1 A-01/A-00 **FRONT ELEVATION**

SCALE: 1 : 75 M

RE-PAINTING OF EXISTING ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT

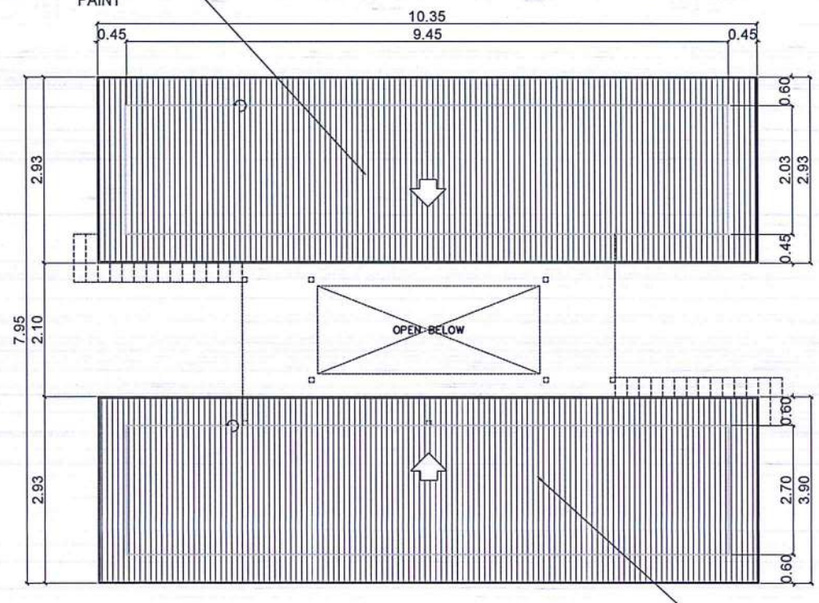
RE-PAINTING OF EXISTING CONCRETE FOUNDATION OF CONTAINER VAN WITH ELASTOMERIC PAINT FINISH

REHABILITATION OF 2-STOREY LIVING QUARTERS

1 A-01/A-00 **LEFT-SIDE ELEVATION**

SCALE: 1 : 75 M

RE-PAINTING OF EXISTING ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



RE-PAINTING OF EXISTING ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT

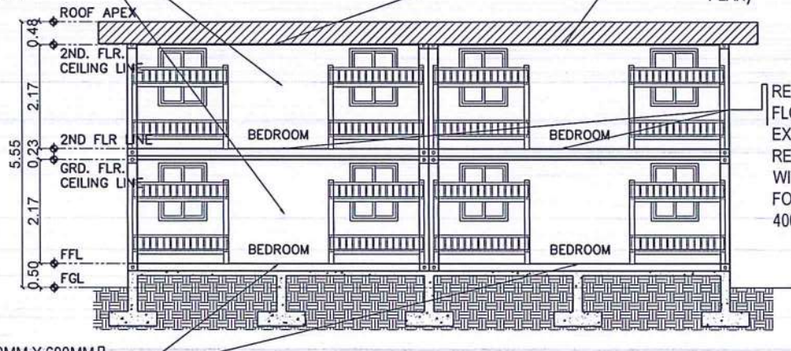
REHABILITATION OF 2-STOREY LIVING QUARTERS

1 A-01/A-00 **ROOF PLAN**

SCALE: 1 : 75 M

RE-PAINTING OF EXISTING CONTAINER VAN INTERIOR WALLS WITH SKIM COAT AND SEMI-GLOSS PAINT

USE 12.0MM THICK FICEM BOARD FOR CEILING WITH SKIM COAT AND PAINTED WITH SEMI-GLOSS PAINT (TYPICAL CEILING LAN SEE DETAILS ON REFLECTED CEILING PLAN)



REMOVE OF EXISTING FLOOR FRAME AND EXISTING VINYL TILE. REPLACE FLOOR FRAME WITH PHENOLIC BOARD FOR FLOOR AND 400mm X 400mm VINYL TILES FINISH

USE 600MM X 600MM HOMOGENOUS POLISH TILES

REHABILITATION OF 2-STOREY LIVING QUARTERS

1 A-01/A-00 **LONGITUDINAL SECTION THRU A**

SCALE: 1 : 75 M

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF 2-STOREY MALE/FEMALE QUARTERS

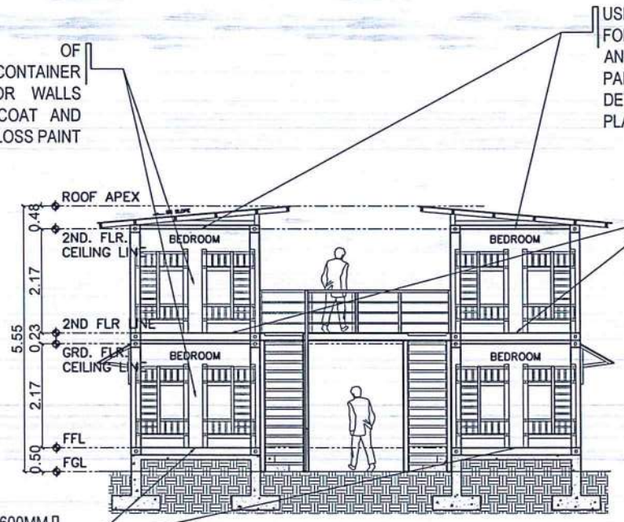
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:

PROVISION PLANS:
- REFLECTED CEILING PLAN
- ROOF PLAN
- FRONT ELEVATION
- LEFT-SIDE ELEVATION
- LONGITUDINAL SECTION THRU A

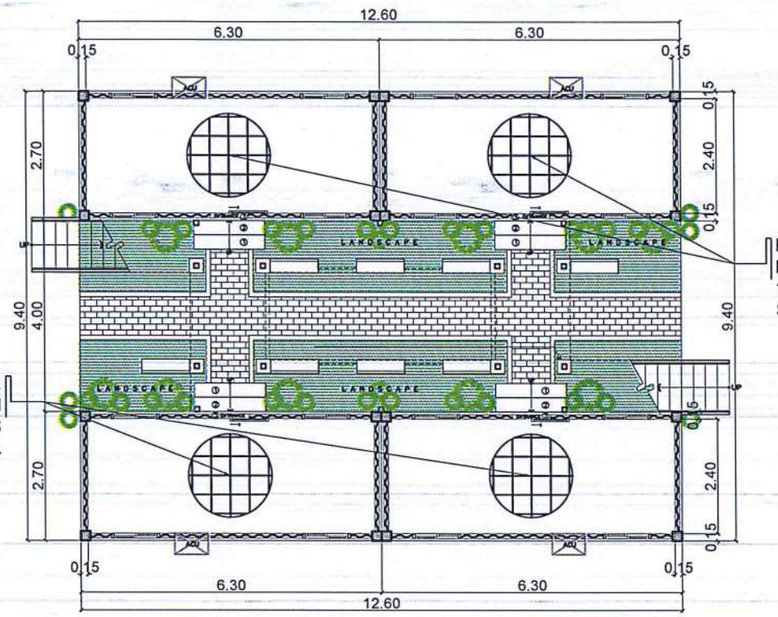
DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	48



REHABILITATION OF 2-STOREY LIVING QUARTERS

1 / A-01A-00 CROSS SECTION THRU B

SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY LIVING QUARTERS

1 / A-01A-00 SLAB ON FILL DETAIL

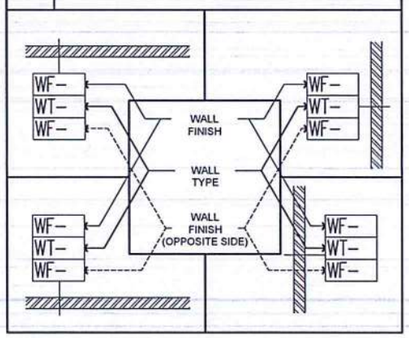
SCALE: 1 : 75 M

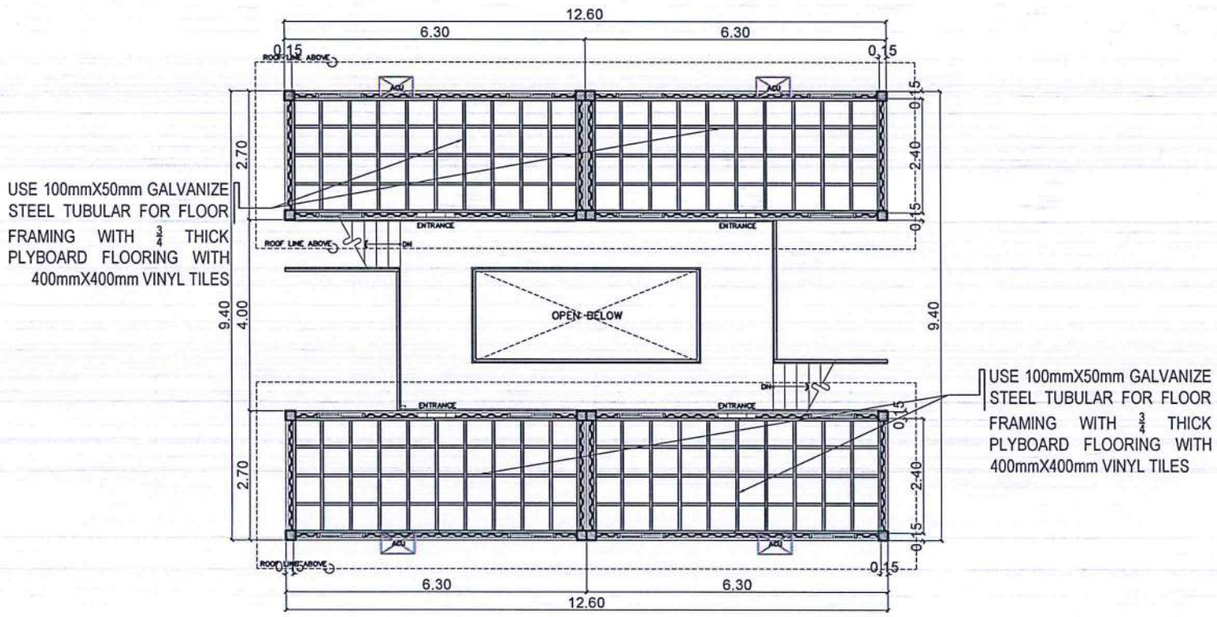
LEGEND	
TAG	FLOOR FINISHES
FF-1	600mmX600mm HOMOGENOUS POLISHED TILES FOR GROUND FLOOR FINISH
FF-2	400mmX400mm VINYL TILES FOR SECOND FLOOR FINISH

LEGEND	
TAG	CEILING FINISHES
CF-1	12mm THICK FICEM BOARD WITH SKIM COAT FINISH AND PAINTED WITH SEMI-GLOSS PAINT

LEGEND	
TAG	WALL FINISHES
WF-1	PAINTING OF EXISTING EXTERIOR WALL WITH EPOXY PRIMER AND PAINTED WITH QUICK DRY ENAMEL PAINT
WF-2	RE-PAINTING OF EXISTING INTERIOR WALL WITH SEMI-GLOSS LATEX PAINT
WF-3	EXISTING INTERIOR WALL WITH EXISTING WALL TILE FINISHED

LEGEND	
TAG	WALL TYPE
WT-1	EXISTING STEEL WALL





REHABILITATION OF 2-STOREY LIVING QUARTERS

1 / A-01A-00 SECOND FLOOR FRAMING PLAN

SCALE: 1 : 75 M

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

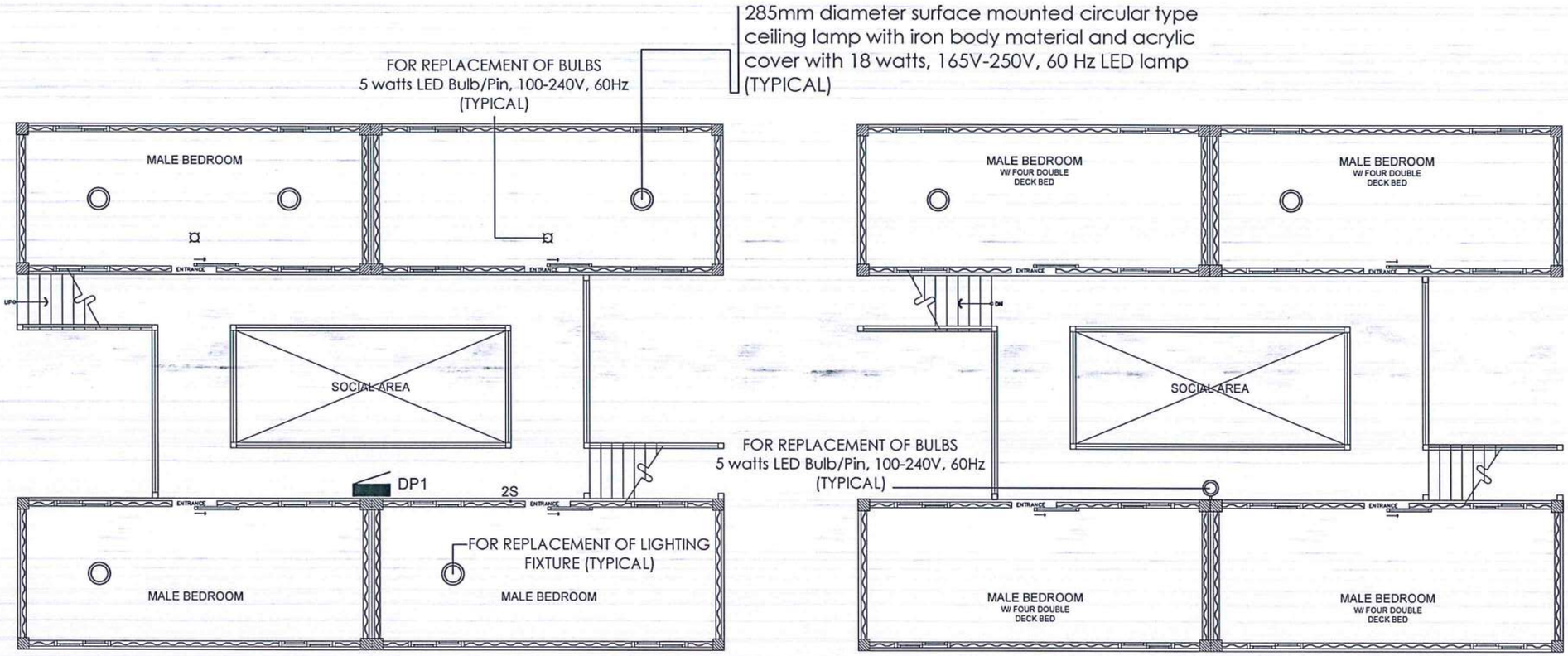
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:

PROVISION PLANS;
- LEGENDS
- CROSS SECTION THRU
- SLAB ON FILL DETAIL
- SECOND FLOOR FRAMING PLAN

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	49



GROUND FLOOR

SECOND FLOOR

LIVING QUARTERS (A)

1/E1 LIGHTING LAYOUT

SCALE: 1:50MTS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF 2-STOREY LIVING QUARTERS)

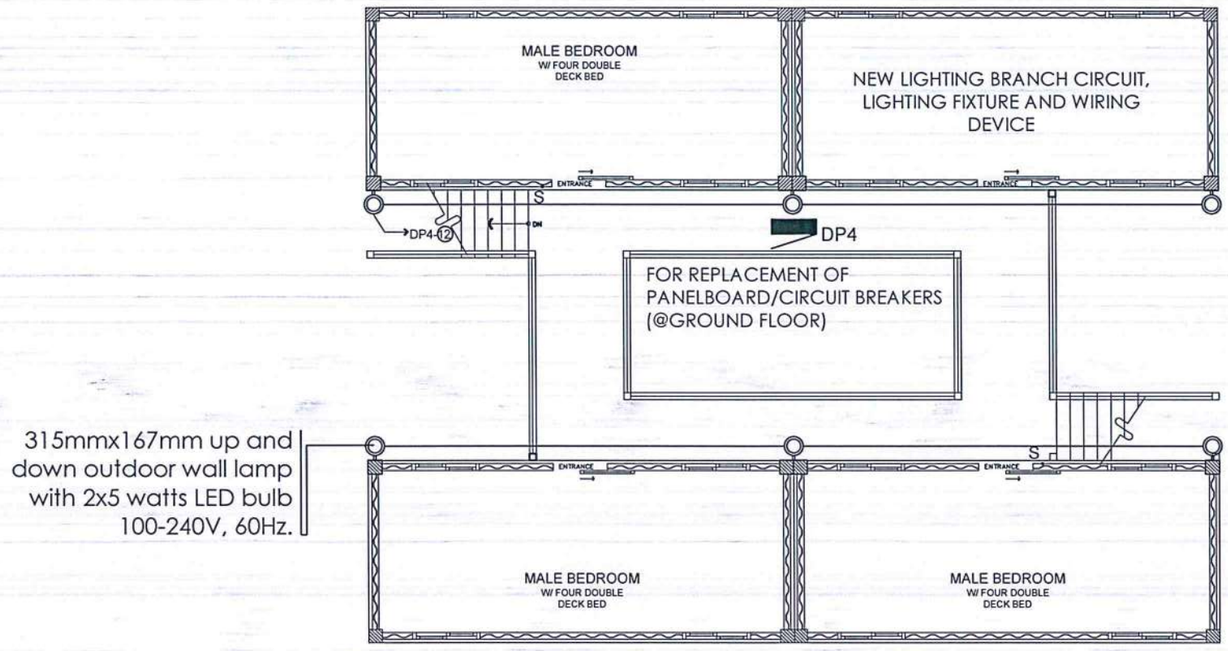
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

LIGHTING LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-1



SECOND FLOOR

LIVING QUARTERS (B)
1/E/2 LIGHTING LAYOUT
SCALE: 1:50MTS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF 2-STOREY LIVING QUARTERS)

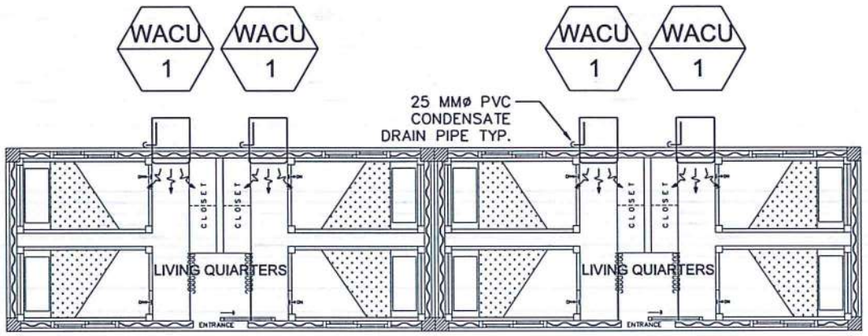
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
LIGHTING LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-2

LEGEND:

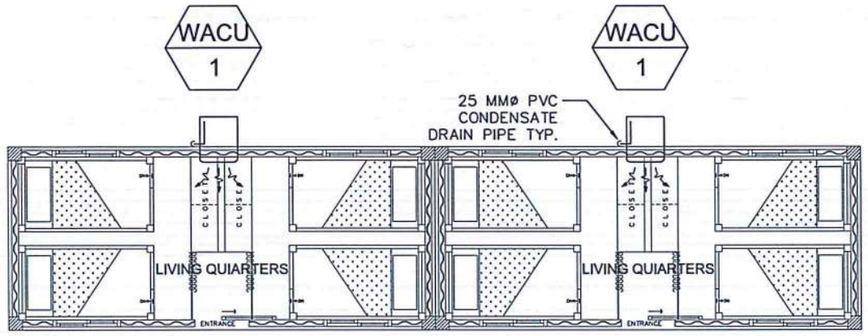
⟵ PIPE GOING DOWN



LIVING QUARTERS (A)

1 / M-1 | M-1 GROUND FLOOR AIR-CONDITIONING LAYOUT (TYP.)

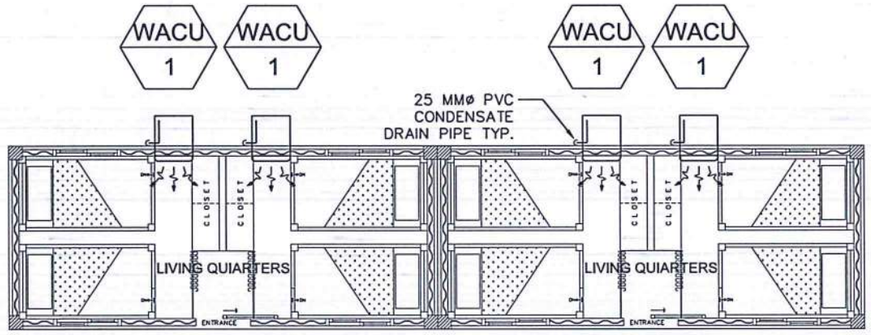
SCALE: NTS



LIVING QUARTERS (B)

3 / M-1 | M-1 GROUND FLOOR AIR-CONDITIONING LAYOUT (TYP.)

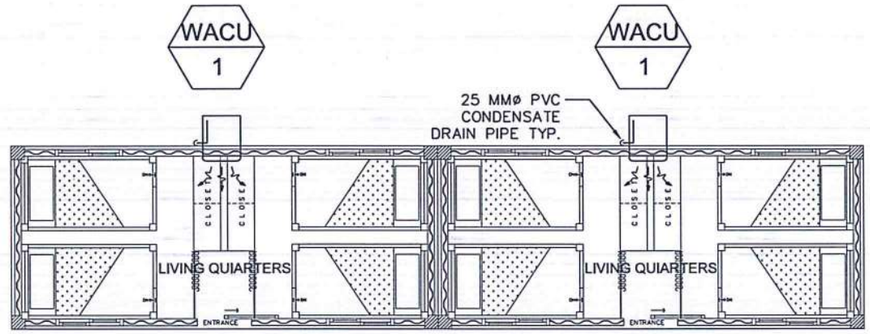
SCALE: NTS



LIVING QUARTERS (A)

2 / M-1 | M-1 SECOND FLOOR AIR-CONDITIONING LAYOUT (TYP.)

SCALE: NTS



LIVING QUARTERS (B)

4 / M-1 | M-1 SECOND FLOOR AIR-CONDITIONING LAYOUT (TYP.)

SCALE: NTS

INVERTER WINDOW TYPE AIR-CONDITIONING UNIT

MARK	QTY.	LOCATION / AREA SERVED	COOLING LOAD/UNIT HP	REFRIGERANT TYPE	ELECTRICAL DATA			NET WEIGHT KG	REMARKS
					V	PH	HZ		
WACU 1	24	LIVING QUARTERS	1.0	R-32	220-230	1	60	42	INVERTER WINDOW TYPE AIR-CONDITIONING UNIT COMPLETE WITH REMOTE CONTROLLER, BRACKET AND OTHER STANDARD ACCESSORIES

BAGONG PILIPINAS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES (REHABILITATION OF 2-STOREY LIVING QUARTERS)

LOCATION:

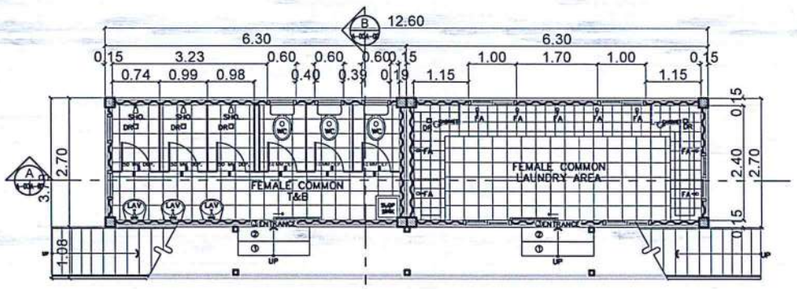
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

LIVING QUARTERS A & B AIR-CONDITIONING LAYOUT

EQUIPMENT SCHEDULE

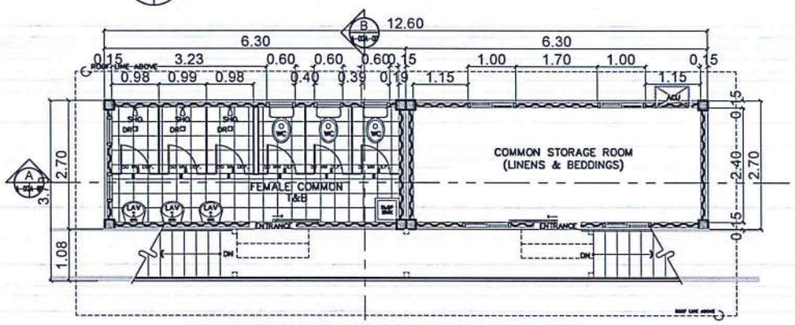
DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 1



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

1 A-01A-00 **EXISTING GROUND FLOOR PLAN**

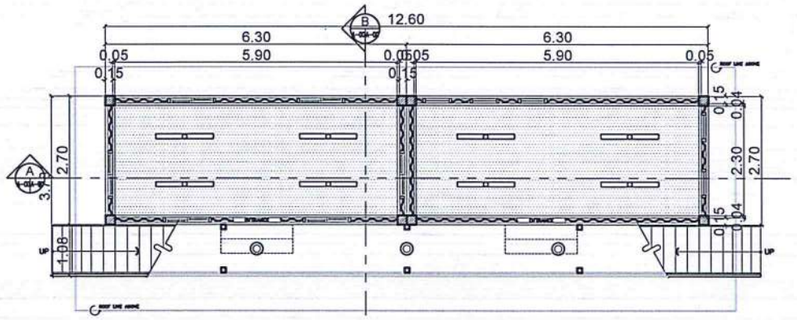
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

1 A-01A-00 **EXISTING SECOND FLOOR PLAN**

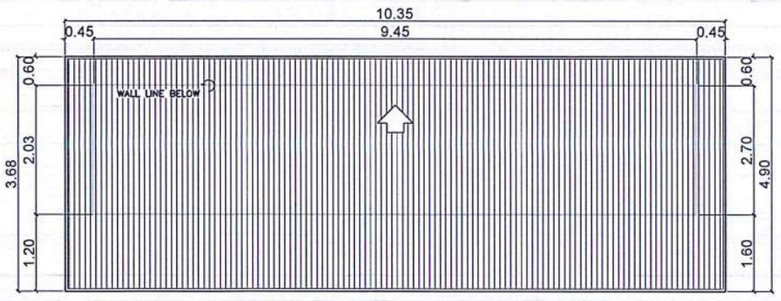
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

1 A-01A-00 **EXISTING REFLECTED CEILING PLAN**

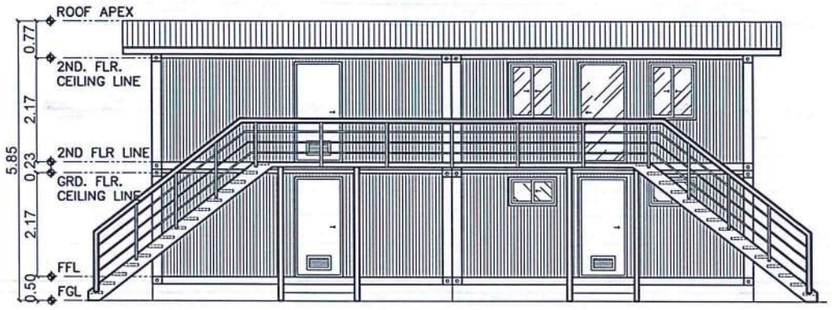
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

1 A-01A-00 **EXISTING ROOF PLAN**

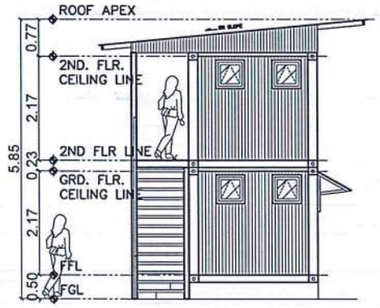
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

1 A-01A-00 **EXISTING FRONT ELEVATION**

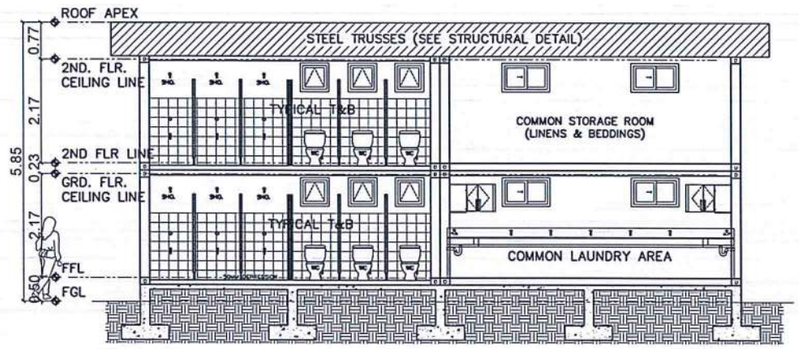
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

1 A-01A-00 **EXISTING RIGHT-SIDE ELEVATION**

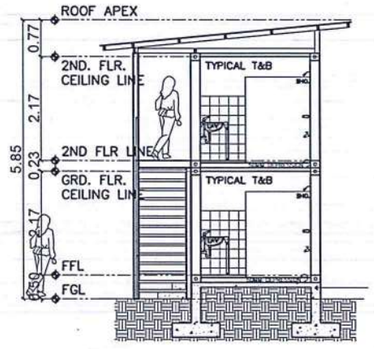
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

1 A-01A-00 **EXISTING LONGITUDINAL SECTION THRU A**

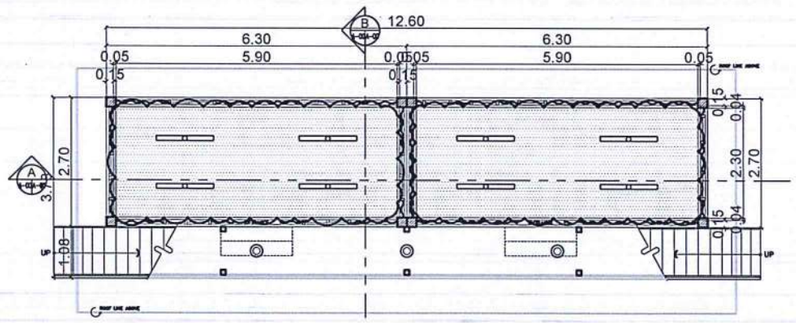
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

1 A-01A-00 **EXISTING CROSS SECTION THRU B**

SCALE: 1 : 75 M



TYPICAL GROUND FLOOR AND SECOND FLOOR

1 A-01A-00 **REFLECTED CEILING DEMOLITION PLAN**

SCALE: 1 : 75 M

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

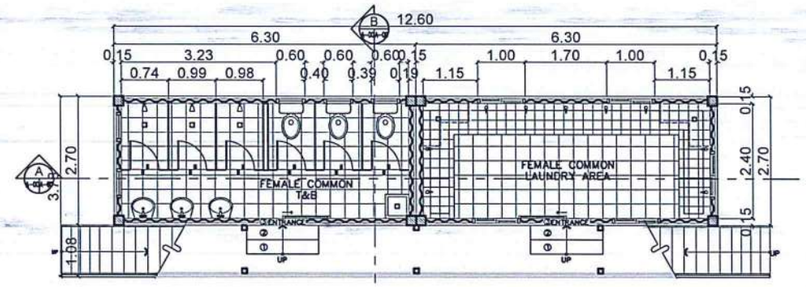
LOCATION:

MANILA TRANSMITTER
TAGUIG, METRO MANILA

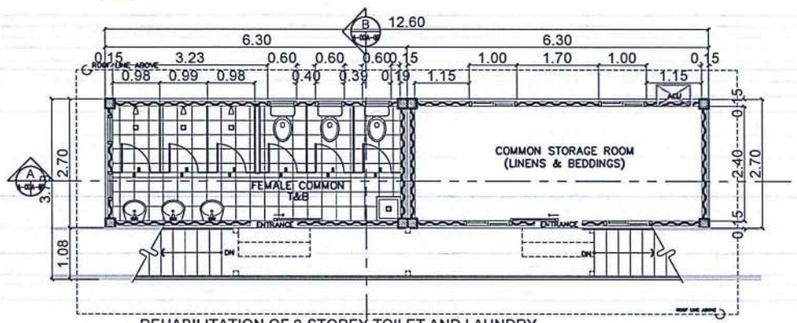
SHEET CONTENTS:

EXISTING PLAN:
- EXISTING GROUND FLOOR PLAN
- EXISTING SECOND FLOOR PLAN
- EXISTING FRONT ELEVATION
- EXISTING RIGHT-SIDE ELEVATION
- EXISTING LONGITUDINAL SECTION THRU A
- EXISTING CROSS SECTION THRU B

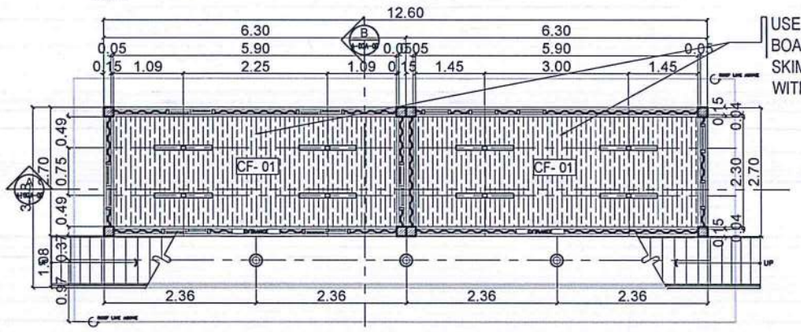
DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	50



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY
1 A-01A-00 GROUND FLOOR DETAILED PLAN
SCALE: 1 : 75 M

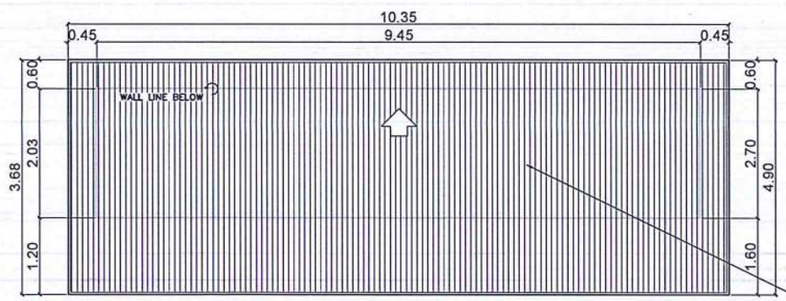


REHABILITATION OF 2-STOREY TOILET AND LAUNDRY
1 A-01A-00 SECOND FLOOR DETAILED PLAN
SCALE: 1 : 75 M



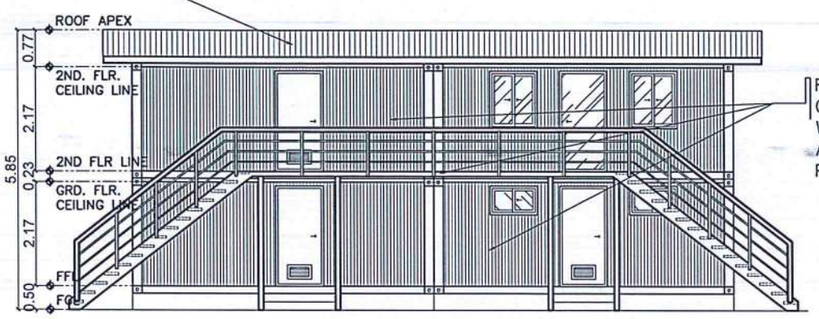
USE 12.0MM THICK FICEM BOARD FOR CEILING WITH SKIM COAT AND PAINTED WITH SEMI-GLOSS PAINT

REHABILITATION OF 2-STOREY TOILET AND LAUNDRY
1 A-01A-00 REFLECTED CEILING PLAN
SCALE: 1 : 75 M



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY
1 A-01A-00 ROOF PLAN
SCALE: 1 : 75 M

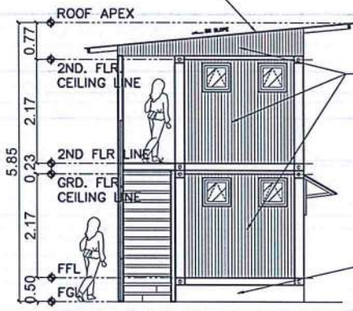
RE-PAINTING OF EXISTING ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT

REHABILITATION OF 2-STOREY TOILET AND LAUNDRY
1 A-01A-00 FRONT ELEVATION
SCALE: 1 : 75 M

RE-PAINTING OF EXISTING ROOF WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT



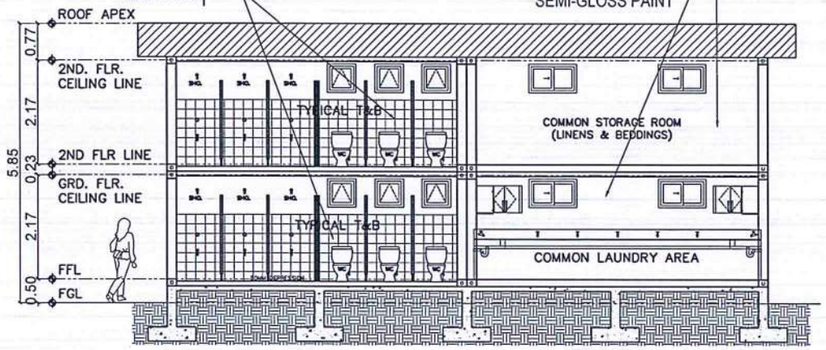
RE-PAINTING OF EXISTING CONTAINER VAN EXTERIOR WALLS WITH EPOXY PRIMER AND QUICK DRY ENAMEL PAINT

RE-PAINTING OF EXISTING CONCRETE PEDESTAL OF CONTAINER VAN WITH ELASTOMERIC PAINT FINISH

REHABILITATION OF 2-STOREY TOILET AND LAUNDRY
1 A-01A-00 RIGHT-SIDE ELEVATION
SCALE: 1 : 75 M

EXISTING POLISHED WALL TILES

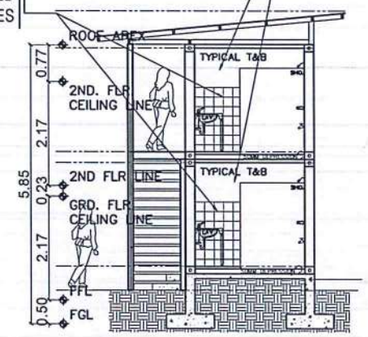
RE-PAINTING OF EXISTING CONTAINER VAN INTERIOR WALLS WITH SKIM COAT AND SEMI-GLOSS PAINT



REHABILITATION OF 2-STOREY TOILET AND LAUNDRY
1 A-01A-00 LONGITUDINAL SECTION THRU A
SCALE: 1 : 75 M

EXISTING POLISHED WALL TILES

RE-PAINTING OF EXISTING CONTAINER VAN INTERIOR WALLS WITH SKIM COAT AND SEMI-GLOSS PAINT

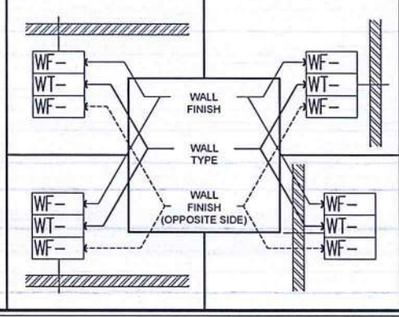


REHABILITATION OF 2-STOREY TOILET AND LAUNDRY
1 A-01A-00 CROSS SECTION THRU B
SCALE: 1 : 75 M

LEGEND	
TAG	CEILING FINISHES
CF-1	12mm THICK FICEM BOARD WITH SKIM COAT FINISH AND PAINTED
	WITH SEMI-GLOSS PAINT

LEGEND	
TAG	WALL FINISHES
WF-1	PAINTING OF EXISTING EXTERIOR WALL WITH EPOXY PRIMER AND
	PAINTED WITH QUICK DRY ENAMEL PAINT
WF-2	RE-PAINTING OF EXISTING INTERIOR WALL WITH SEMI-GLOSS
	LATEX PAINT
WF-3	EXISTING INTERIOR WALL WITH EXISTING WALL TILE FINISHED

LEGEND	
TAG	WALL TYPE
WT-1	EXISTING STEEL WALL



REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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LT COL VALENTINO A DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

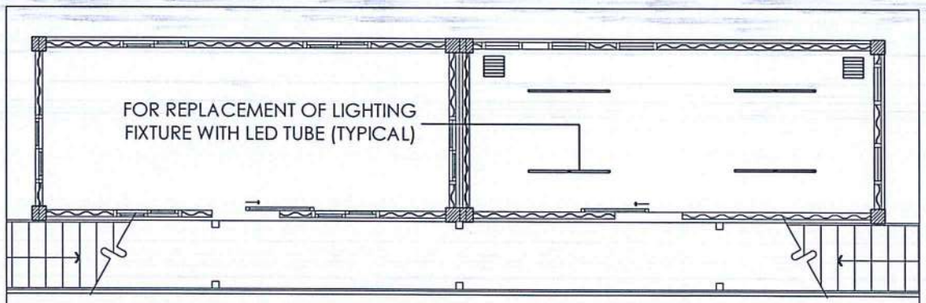
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF 2-STOREY TOILET AND LAUNDRY

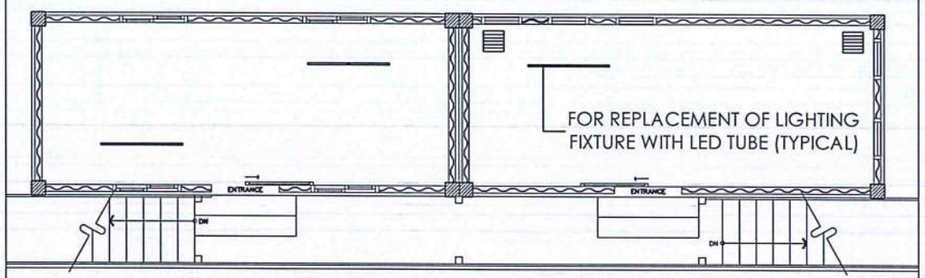
LOCATION:
MANILA TRANSMITTER
TAGUIG, METRO MANILA

SHEET CONTENTS:
PROVISION PLAN:
- GROUND FLOOR PLAN
- SECOND FLOOR PLAN
- FRONT ELEVATION
- RIGHT-SIDE ELEVATION
- LONGITUDINAL SECTION THRU A
- CROSS SECTION THRU B
- LEGENDS

DRAWING SCALE:	SHEET NO:	
AS SHOWN	A	51

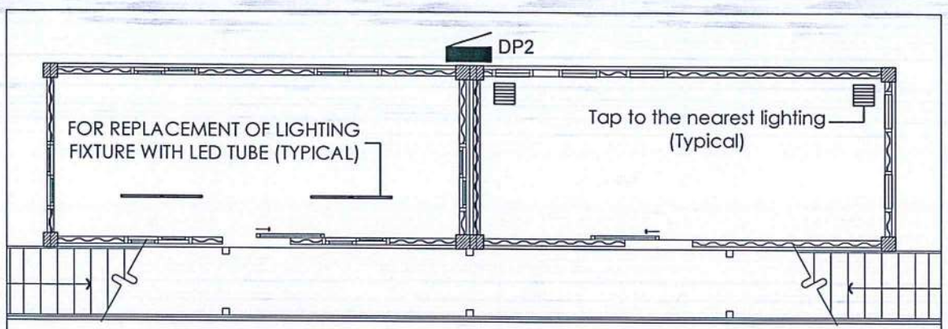


GROUND FLOOR

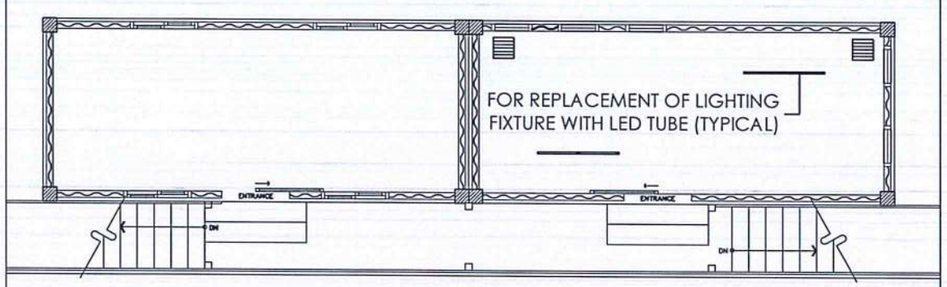


SECOND FLOOR

TOILET/LAUNDRY AREA (A)
1 / E|1 LIGHTING LAYOUT
SCALE: 1:50MTS

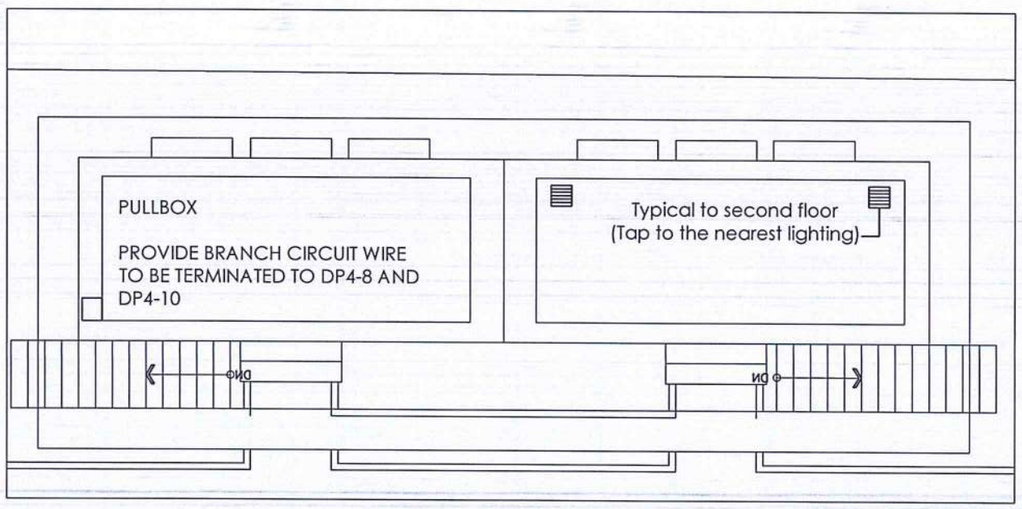


GROUND FLOOR



SECOND FLOOR

TOILET/LAUNDRY AREA (B)
2 / E|1 LIGHTING LAYOUT
SCALE: 1:50MTS



TOILET/LAUNDRY AREA (C)
3 / E|1 POWER LAYOUT
SCALE: 1:50MTS

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NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF 2-STOREY TOILET AND LAUNDRY AREA)

LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

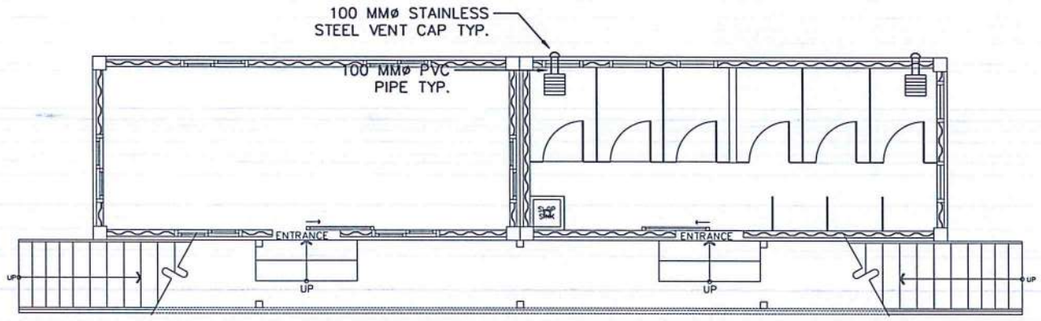
SHEET CONTENTS:

LIGHTING LAYOUT AND POWER LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-1

LEGEND:

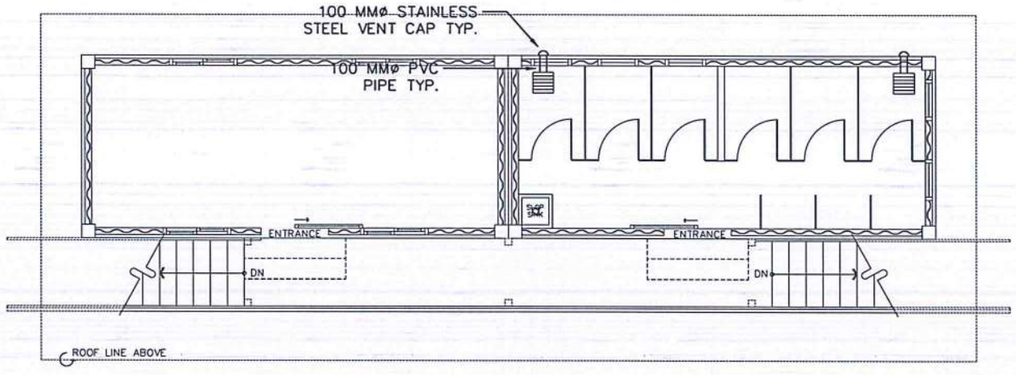
12" CEILING MOUNTED EXHAUST FAN



TOILET/LAUNDRY AREA A, B & C

1 / M-1 | M-1 GROUND FLOOR EXHAUST FAN LAYOUT (TYP.)

SCALE: NTS



TOILET/LAUNDRY AREA A, B & C

2 / M-1 | M-1 SECOND FLOOR EXHAUST FAN LAYOUT (TYP.)

SCALE: NTS

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(REHABILITATION OF 2-STOREY TOILET AND LAUNDRY AREA)

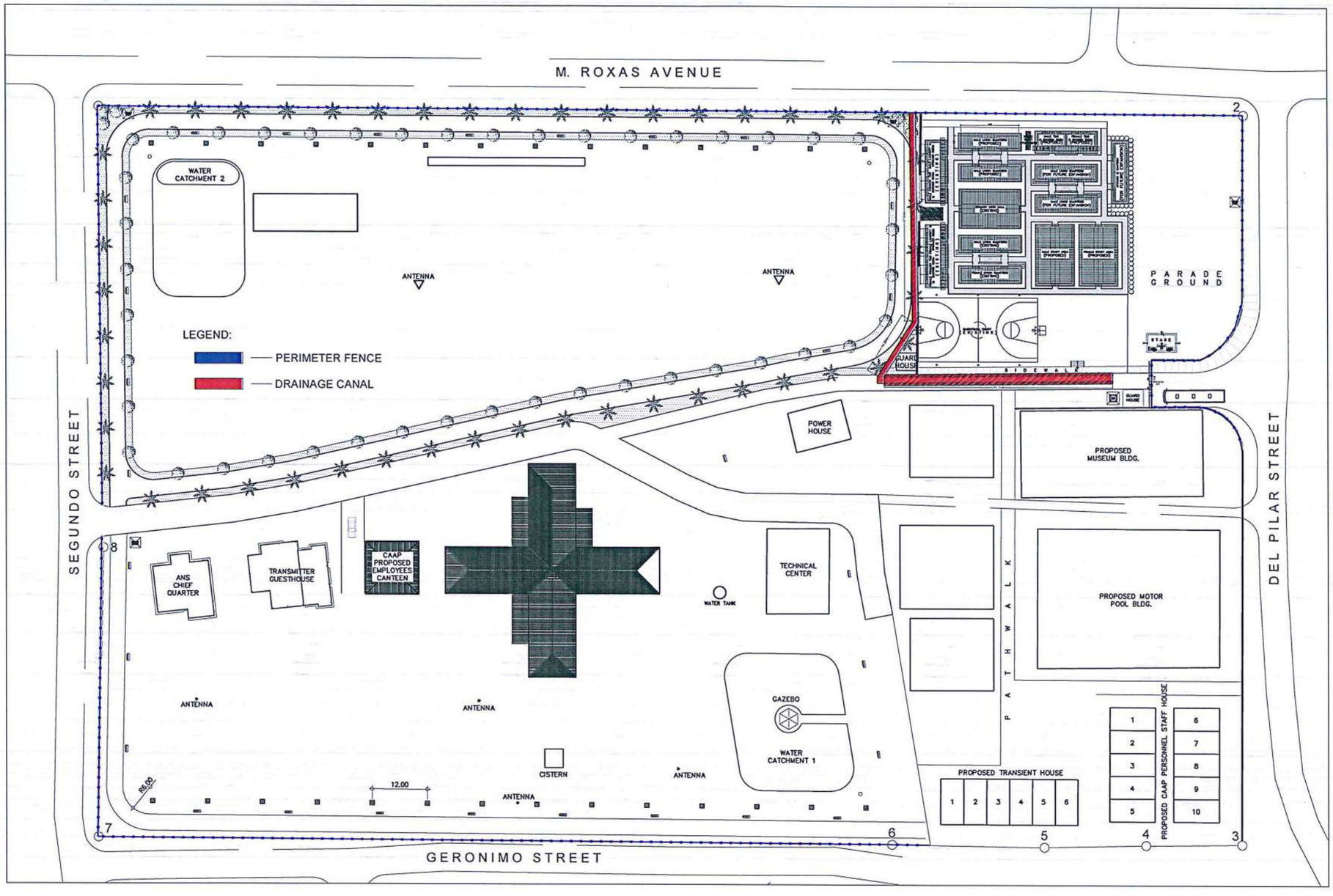
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

TOILET/LAUNDRY EXHAUST FAN LAYOUT (TYP.)

DRAWING SCALE:	SHEET NO:
AS SHOWN	M - 1



DRAINAGE CANAL & PERIMETER FENCE LAYOUT

SCALE 1:500M

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AERODROME DEVELOPMENT AND ARMAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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APPROVED:

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Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(PROVISION OF DRAINAGE CANAL & IMPROVEMENT OF PERIMETER FENCE)

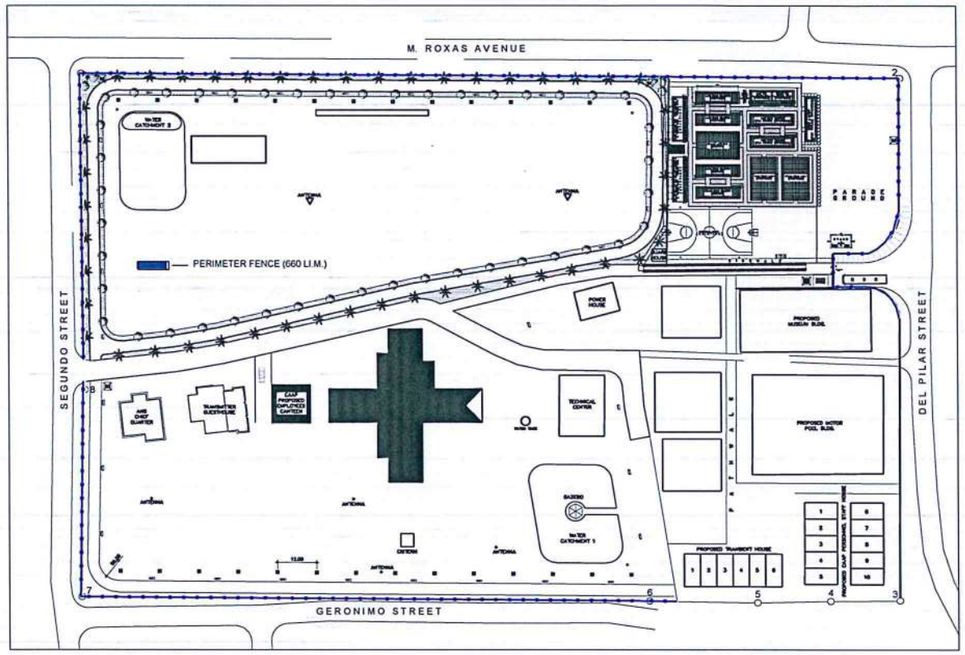
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

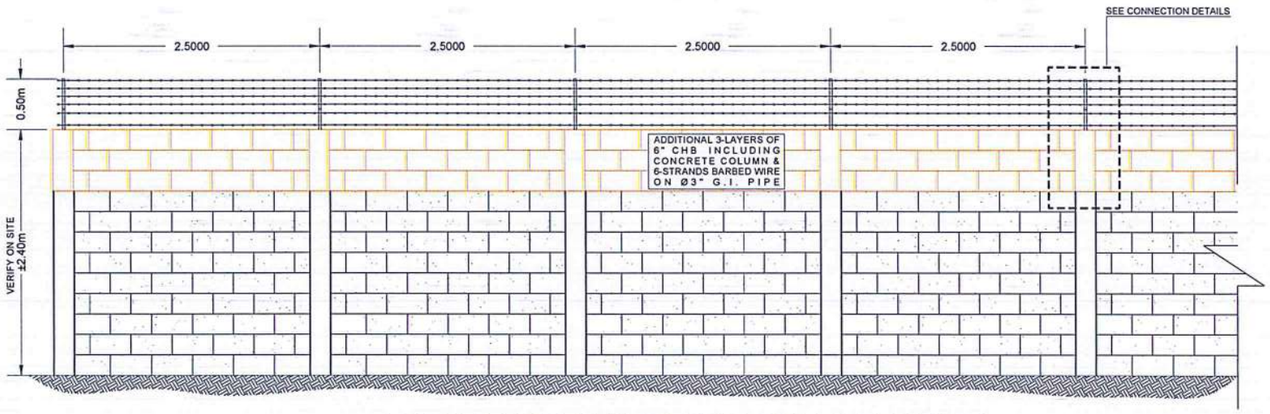
- SITE DEVELOPMENT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	CW-01

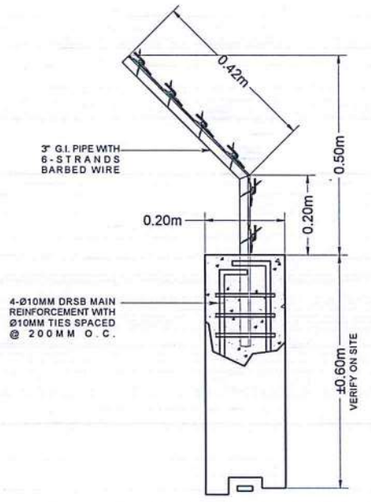


PERIMETER FENCE LAYOUT

SCALE NTS



PERIMETER FENCE TYPICAL ELEVATION



CONNECTION DETAILS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
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DRAWN BY:	JBP	
CHECKED BY:	SJD	

REVIEWED BY:
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ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(IMPROVEMENT OF EXISTING PERIMETER FENCE)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
- CHB PERIMETER FENCE DETAILS

DRAWING SCALE:	SHEET NO:
AS SHOWN	CW-03

GENERAL NOTES:

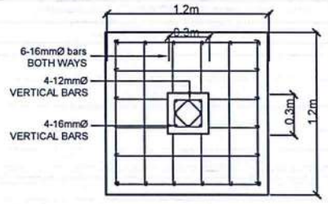
1. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH THE RULES AND REGULATIONS OF THE UTILITY COMPANIES CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED MASTER ELECTRICIAN AND/OR REGISTERED ELECTRICAL ENGINEER.
3. INSTALLATION OF ALL WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, IMPROPERLY SET WORK OR FINISH AS DETERMINED BY THE ENGINEER/ARCHITECT SHALL BE REMOVED AND REPLACED AT NO EXTRA COST.
4. ALL MATERIALS SHOULD BE NEW AND ACCEPTABLE TO THE ARCHITECT/ENGINEER.
5. ALL MATERIALS SHALL BE SUBJECT FOR APPROVAL BY THE ENGINEER.
6. THE USE OF ANY MATERIALS NOT SPECIFIED IN THE SPECIFICATION MAY BE ALLOWED PROVIDED, HOWEVER THAT SUCH SUBSTITUTED MATERIALS ARE PROVEN EQUAL AND/OR SUPERIOR IN QUALITY & SHALL HAVE PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
7. APPROPRIATE TOOLS AND TESTING EQUIPMENT SHALL BE USED THROUGH OUT ELECTRICAL INSTALLATION WORKS PRIOR TO TURN-OVER OF THE PROJECT.
8. LAYOUT DIMENSION SHOWN IN DRAWINGS ARE APPROXIMATE ONLY AND INTENDED TO SERVE AS AN INSTALLATION GUIDE. DIMENSION MUST BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITION. WHENEVER FIELD CONDITION OR EXIGENCIES OF CONSTRUCTION MAKE DEPARTURE FROM THE LAYOUT SHOWN, DETAIL OF SUCH DEPARTURE FROM PLAN AND REASON THEREOF SHALL BE SUBMITTED TO THE OWNER OR HIS DULY AUTHORIZED REPRESENTATIVE AND NO DEPARTURE SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE AUTHORITIES CONCERNED.
9. VERIFY ON SITE THE ACTUAL DISTANCE BETWEEN LAMP POST.

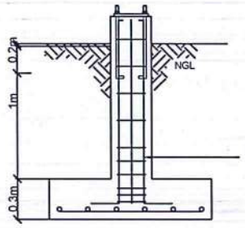
NOTES

1. UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAYS CYLINDER COMPRESSIVE STRENGTH OF CONCRETE f'C, SHALL BE AS FOLLOWS:
   1.1 FOOTINGS & PEDESTALS 20.70 MPa. (3000 psi)
2. ALL REINFORCING STEEL BARS SHALL BE NEW BILLET, HOT ROLLED, WELDABLE, DEFORMED BARS CONFORMING TO THE SPECIFICATIONS OF PNS 49: 1986 (ASTM 615) WHOSE GRADE IS SHOWN BELOW :

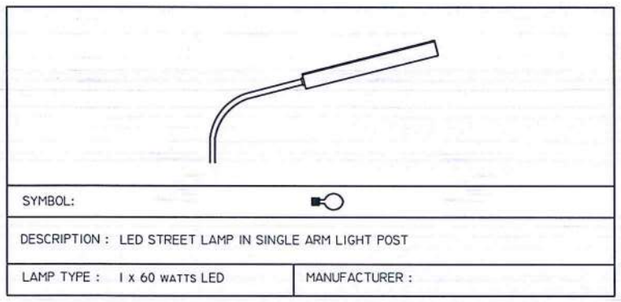
GRADE	BAR DIAMETER
GRADE 415 (fy = 60 ksi)	16, 20, 25
GRADE 275 (fy = 40 ksi)	10 to 12 mm

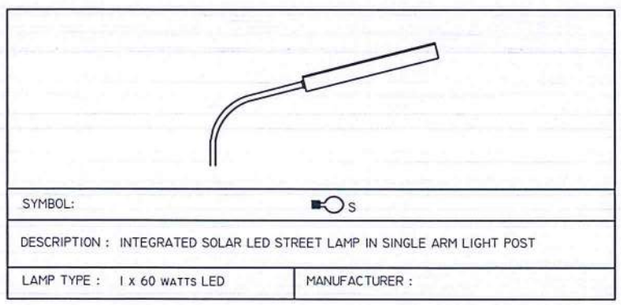
3. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:
   a) CONCRETE CAST AGAINST EARTH – 75 mm
   b) CONCRETE EXPOSED TO EARTH OR WEATHER
      16 mm BARS AND SMALLER – 40 mm
4. ALL WELDED CONNECTIONS MUST DEVELOP FULL STRENGTH OF THE MEMBERS.
5. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL RECEIVED AT LEAST ONE COAT OF RED LEAD PAINT.



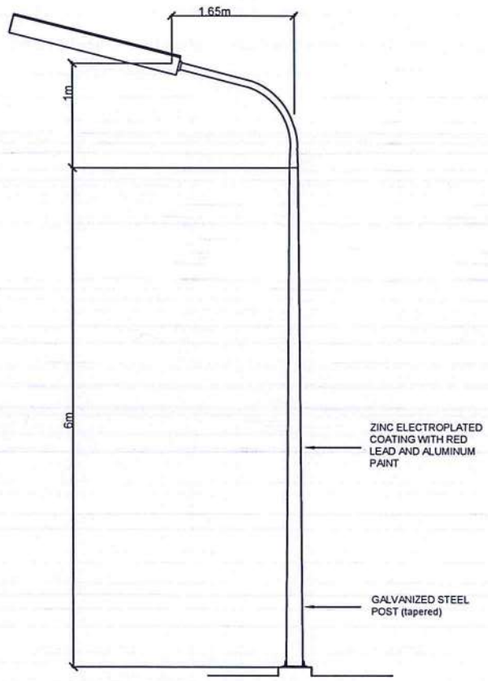


2 / S 1 COLUMN-FOOTING PLAN
SCALE: 1:25 M

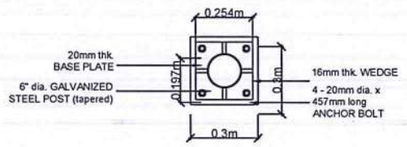




1 / E 1 SCHEDULE OF LIGHTING FIXTURE
SCALE: NTS



3 / S 1 ELEVATION
SCALE: 1:40 M



1 / S 1 DETAILS
SCALE: 1:15 M

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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DRAWN BY:	JPCJR
CHECKED BY:	

REVIEWED BY:
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Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:
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ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (IMPROVEMENT OF EXISTING PERIMETER FENCE)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
GENERAL NOTES
SCHEDULE OF LIGHTING FIXTURE
PLANS AND DETAILS
ELEVATION

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-1

M. ROXAS AVENUE

SEGUNDO STREET

DEL PILAR STREET

GERONIMO STREET

ANTENNA

ANTENNA

GUARD HOUSE

POWER HOUSE

PROPOSED MUSEUM BLDG.

GUARD HOUSE

ANS CHIEF QUARTER

TRANSMITTER GUESTHOUSE

TRANSMITTER BUILDING

24.00 24.00 24.00 24.00 24.00 24.00 24.00

20.00 20.00 20.00

20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00

1 2 3 4 5 6 7 8

FOUNDATION LAYOUT PLAN

SCALE: NTS

REPUBLIC OF THE PHILIPPINES

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	JPCJR
CHECKED BY:	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES (IMPROVEMENT OF EXISTING PERIMETER FENCE)

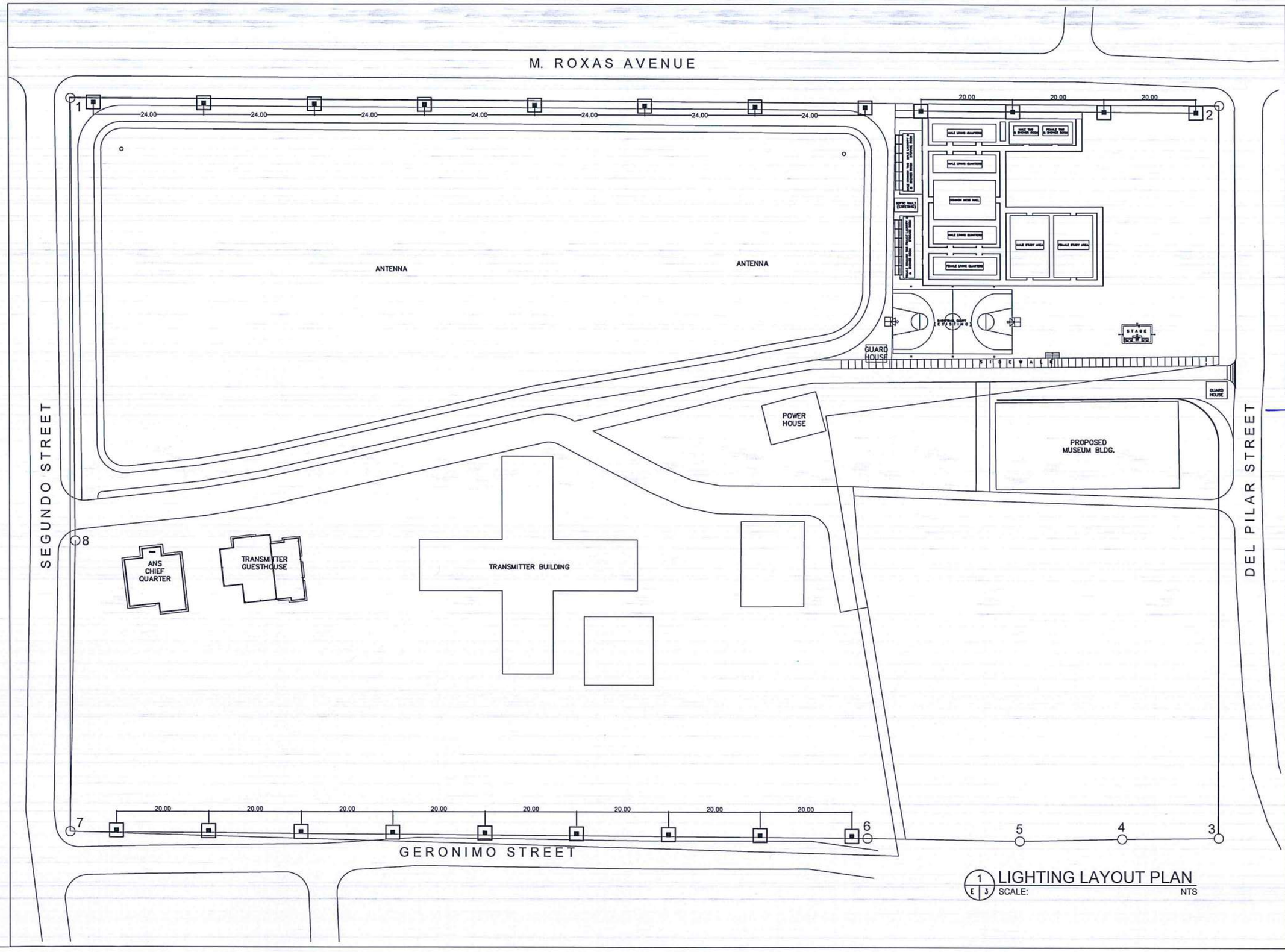
LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

FOUNDATION LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-2



1 / E 3 LIGHTING LAYOUT PLAN
SCALE: NTS

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	JPCJR
CHECKED BY:	

REVIEWED BY:
RAUL R. CRUCENA
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SUBMITTED BY:
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APPROVED:
CAPTAIN MANDEL ANTONIO L. TAMAYO
Director General

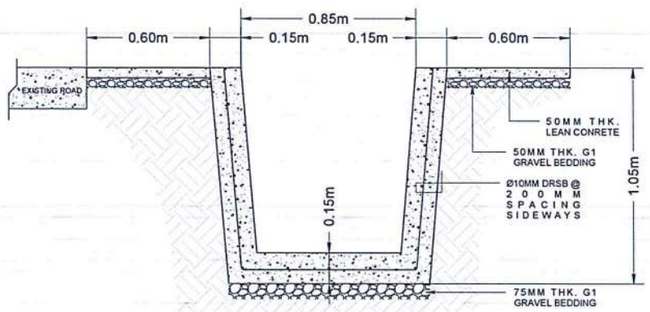
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (IMPROVEMENT OF EXISTING PERIMETER FENCE)

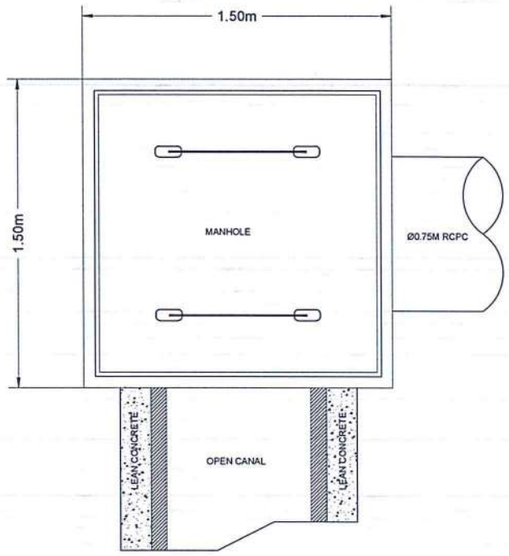
LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
LIGHTING LAYOUT PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-3



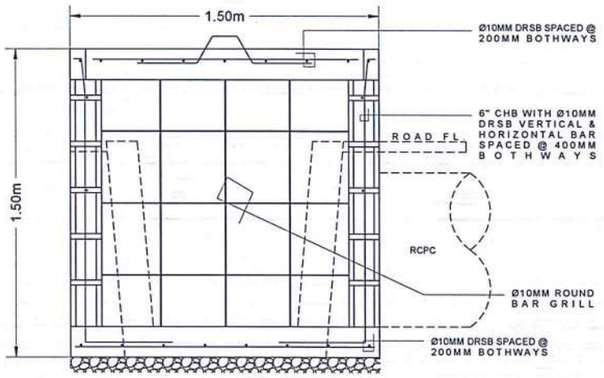
DETAIL 01



PLAN VIEW

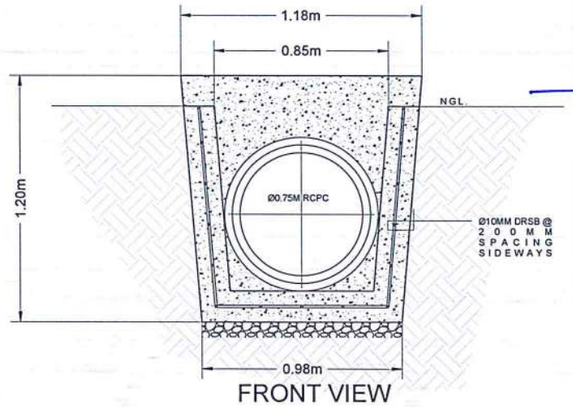
DRAINAGE CANAL BLOW-UP PLAN

SCALE NTS

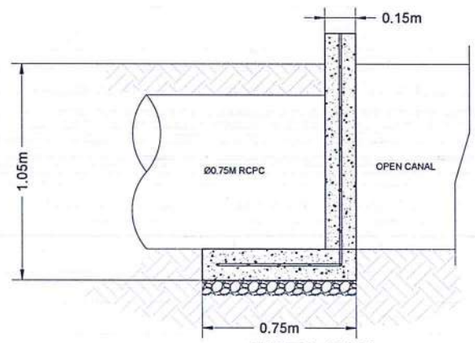


SECTION VIEW

DETAIL 02



FRONT VIEW



SIDE-VIEW

DETAIL 03

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE	
DESIGNED BY:	IDDD	
DRAWN BY:	JBB	
CHECKED BY:	SJD	

REVIEWED BY:

RAUL R. CRUCENA
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SUBMITTED BY:

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LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

REHABILITATION OF MANILA TRANSMITTER FACILITIES
(PROVISION OF DRAINAGE CANAL)

LOCATION:

MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:

- DRAINAGE CANAL DETAILS

DRAWING SCALE:	SHEET NO:
AS SHOWN	CW-02

GENERAL NOTES:

1. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH THE RULES AND REGULATIONS OF THE UTILITY COMPANIES CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY QUALIFIED AND LICENSED ELECTRICAL ENGINEER.
3. UNLESS OTHERWISE SPECIFIED IN THE PLAN; METHODS OF WIRING SHALL BE AS FOLLOWS:

   3.1 EMBEDDED IN CONCRETE
   - USE PVC SCH.40 CONDUIT EXCEPT COMMUNICATION AND DATA LINES

   3.2 NOT EMBEDDED IN CONCRETE
   - USE EMT CONDUITS WITH SIZE NOT LARGER THAN 25mm DIAMETER
   - USE IMC WITH SIZE LARGER THAN 25mm DIAMETER

   3.3 MINIMUM SIZE OF WIRES AND CONDUITS TO BE USED SHALL BE NO. 3.5 SQ. MM. THHN/THWN-2 AND 15MM NOMINAL DIAMETER RESPECTIVELY **"USE UL LISTED"**.
4. WIRING SHALL BE COLOR CODED AS FOLLOWS ØA=RED, ØB=YELLOW, ØC=BLUE, GROUND=GREEN AND NEUTRAL=WHITE **"USE UL LISTED"**.
5. INSTALLATION OF ALL WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, IMPROPERLY SET WORK OR FINISH AS DETERMINED BY THE ENGINEER/ARCHITECT SHALL BE REMOVED AND REPLACED AT NO EXTRA COST.
6. ALL MATERIALS SHOULD BE NEW AND ACCEPTABLE TO THE ARCHITECT/ENGINEER, UNLESS OTHERWISE SPECIFIED TO RE-USE OTHER MATERIALS.
7. ALL MATERIALS SHALL BE SUBJECT FOR APPROVAL BY THE ENGINEER.
8. THE USE OF ANY MATERIALS NOT SPECIFIED IN THE SPECIFICATION MAY BE ALLOWED PROVIDED, HOWEVER THAT SUCH SUBSTITUTED MATERIALS ARE PROVEN EQUAL AND/OR SUPERIOR IN QUALITY & SHALL HAVE PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
9. APPROPRIATE TOOLS AND TESTING EQUIPMENT SHALL BE USED THROUGH OUT ELECTRICAL INSTALLATION WORKS PRIOR TO TURN-OVER OF THE PROJECT.
10. SUBMIT AN ACCURATE AS-BUILT PLANS.
11. GENERAL USED RECEPTACLE SHALL BE RATED 16 AMPERES, 2 POLE, 250 VOLTS, UNIVERSAL GROUNDING TYPE WITH PARALLEL SLOTS, SPECIAL PURPOSE OUTLET SHALL BE OF THE TYPE AND RATING INSULATED FOR RATING SUITED FOR THE EQUIPMENT SERVED.
12. ALL ACCESSORIES, SPLICING DEVICES, TERMINATIONS AND OTHER APPURTENANCES FOR THE ENTIRE INSTALLATIONS SHALL BE OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSE INTENDED.
13. ALL ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE REQUIREMENT OF THE PHILIPPINE ELECTRICAL CODE.
14. JUNCTION BOXES, PULL BOXES, WIRE GUTTER GAUGE NO. 16 (MINIMUM) SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER REQUIRED AND NECESSARY AND SHALL BE INSTALLED AT CONVENIENT SPACE AND LOCATION TO FACILITATE WIRE PULLING EVEN IF THESE ITEMS ARE NOT SHOWN IN THE PLAN.
15. PANEL BOARD SHALL BE EQUIPPED WITH GROUND AND NEUTRAL KIT TERMINALS WITH NUMBER OF TERMINALS EQUAL TO THE NUMBER OF BRANCH CIRCUITS.
16. FOR EACH SPARE BRANCH CIRCUIT IN PANEL BOARD, PROVIDE ONE 15MMØ EMPTY CONDUIT CONNECTED TO AN OCTAGONAL BOX AT ABOVE CEILING.
17. VERIFYING AND TRACING OF THE EXISTING ELECTRICAL SYSTEM OF THE BUILDING SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
18. LAYOUT DIMENSION SHOWN IN DRAWINGS ARE APPROXIMATE ONLY AND INTENDED TO SERVE AS AN INSTALLATION GUIDE. DIMENSION MUST BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITION. WHENEVER FIELD CONDITION OR EXIGENCIES OF CONSTRUCTION MAKE DEPARTURE FROM THE LAYOUT SHOWN, DETAIL OF SUCH DEPARTURE FROM PLAN AND REASON THEREOF SHALL BE SUBMITTED TO THE OWNER OR HIS DULY AUTHORIZED REPRESENTATIVE AND NO DEPARTURE SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE AUTHORITIES CONCERNED.
16. SECURING OF NECESSARY ELECTRICAL PERMITS, CEI AND OTHER NECESSARY REQUIREMENTS SHALL BE PART OF THE GENERAL CONTRACTOR, INCLUDING COORDINATION/APPLICATION WITH THE UTILITY COMPANY FOR POWER INTERRUPTION.
17. USE PROPER ROPE AND WIRE PULLING LUBRICANT WHENEVER REQUIRED AND NECESSARY.

SCHEDULE OF LOADS: LPP: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING				CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
						AB	BC	CA	ABC			
1	WELDING	-	230	5750	1	25				60AT, 2P	2-8.0mm² THHN WIRE 1-5.5mm² THHN WIRE	20mmØ PVC
2	CONVENIENCE OUTLET	9	230	1620	1	7.04				30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
3	CONVENIENCE OUTLET	10	230	1800	1			7.83		30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
4	CONVENIENCE OUTLET	10	230	1800	1			7.83		30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
5	ACU		230	3220	1		14			30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
6	ACU		230	3220	1		14			30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
7	ACU		230	3220	1	14				30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
8	ACU		230	3220	1	14				30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
9	ACU		230	3220	1			14		30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
10	ACU		230	3220	1			14		30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
11	ACU		230	3220	1		14			30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
12	ACU		230	3220	1		14			30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
13	LIGHTING	14	230	1400	1	6.09				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
14	LIGHTING	16	230	1600	1	6.96				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
15	LIGHTING	16	230	1600	1			6.96		15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
16	LIGHTING	12	230	1200	1			5.22		15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
17	LIGHTING	12	230	1200	1		5.22			15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
18	LIGHTING	10	230	1000	1		4.35			15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
19	CONVENIENCE OUTLET	8	230	1440	1	6.26				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
20	LIGHTING	8	230	800	1	3.48				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
21												
22	LIGHTING	8	230	800	1			3.48		15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
23												
24												
25												
26												
	T O T A L			47770		82.83	65.67	59.32				

$I_T = 47770/(\sqrt{3} \times 230) + (25\% \times 14) = 123.41$ AMPS

$I_T = 123.41$AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 80mm² THHN/THWN-2 COPPER WIRE
1 - 22mm² THHN/THWN-2 COPPER WIRE
IN 63MMØ IMC/63MMØ PVC

FOR THE MAIN SERVICE PROTECTION:
USE: 200AT, 250AF, 3-POLE, 240V MCCB

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (UPGRADING OF ELECTRICAL SYSTEM)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
SCHEDULE OF LOADS - TECHNICAL CENTER

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-1

SCHEDULE OF LOADS: LP: 230VOLTS, 1-PHASE, 2WIRE + G (TYPICAL FOR 8 STUDIO TYPE CONTAINER VAN)

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING	3	230	300	1	1.3	15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
2	CONVENIENCE OUTLET	8	230	2400	1	10.43	20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
3	1 HP WINDOW TYPE ACU	1	230	1725	1	6	20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
4	1 HP WINDOW TYPE ACU	1	230	1725	1	6	20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
	T O T A L			6150		23.73			

I_T = 6150/230 + (25%x6) = 28.24 AMPS
I_T = 28.24 AMPS

FOR THE SERVICE FEEDER:
USE: 2 - 5.5mm² THWN COPPER WIRE
1 - 3.5mm² THWN COPPER WIRE
IN 15MMØ EMT

FOR THE MAIN SERVICE PROTECTION:
USE: 40AT, 60AF, 2-POLE, 240V MCCB

SCHEDULE OF LOADS: DP1: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	AMPERE RATING BC	AMPERE RATING CA	AMPERE RATING ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	STUDIO TYPE CONTAINER VAN	-	230	6150	1	23.73				40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
2	STUDIO TYPE CONTAINER VAN	-	230	6150	1	23.73				40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
3	STUDIO TYPE CONTAINER VAN	-	230	6150	1			23.73		40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
4	STUDIO TYPE CONTAINER VAN	-	230	6150	1			23.73		40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
5	STUDIO TYPE CONTAINER VAN	-	230	6150	1		23.73			40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
6	STUDIO TYPE CONTAINER VAN	-	230	6150	1		23.73			40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
7	STUDIO TYPE CONTAINER VAN	-	230	6150	1	23.73				40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
8	SPACE	-	230	-	-	-				-	-	-
9	STUDIO TYPE CONTAINER VAN	-	230	6150	1			23.73		40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
10	SPACE	-	-	-	-			-		-	-	-
11	LIGHTING	16	230	2000	1		8.7			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
12	SPARE	-	230	1500	1		6.52			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
	T O T A L			52700		71.19	62.68	71.19				

I_T =52700/($\sqrt{3}$ X 230) + (25%x6) = 133.79 AMPS
I_T = 133.79 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 80mm² THWN COPPER WIRE
1 - 22mm² THWN COPPER WIRE
IN 50MMØ RSC

FOR THE MAIN SERVICE PROTECTION:
USE: 200AT, 225AF, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: PB: 230VOLTS, 1-PHASE, 2WIRE + G (OFFICE)

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING OUTLET CONVENIENCE OUTLET	4 2	230	560	1	2.43	15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
2	1 HP WINDOW TYPE ACU	1	230	1725	1	6	15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
	T O T A L			2285		8.43			

I_T = 2285/230 + (25%x6) = 11.43 AMPS
I_T = 11.43 AMPS

FOR THE SERVICE FEEDER:
USE: 2 - 3.5mm² THWN COPPER WIRE
1 - 2.0mm² THWN COPPER WIRE
IN 15MMØ EMT

FOR THE MAIN SERVICE PROTECTION:
USE: 20AT, 60AF, 2-POLE, 240V MCCB

SCHEDULE OF LOADS: DP2: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	AMPERE RATING BC	AMPERE RATING CA	AMPERE RATING ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	MALE COMMON T&B	4	230	400	1	1.74				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
2	MALE COMMON T&B	4	230	400	1	1.74				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
3	MALE COMMON LAUNDRY AREA	4	230	400	1			1.74		15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
4	MALE STORAGE ROOM	4	230	400	1			1.74		15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
5	FEMALE COMMON T&B	4	230	400	1		1.74			15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
6	FEMALE COMMON T&B	4	230	400	1		1.74			15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
7	FEMALE COMMON LAUNDRY AREA	4	230	400	1	1.74				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
8	SPARE	1	230	1200	1	5.22				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
9	LIGHTING (MALE HALLWAY)	6	230	800	1			3.48		15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
10	OFFICE	1	230	2285	1			8.43		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	
11	LIGHTING (FEMALE HALLWAY)	6	230	800	1		3.48			15AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
12	SPARE	1	230	1200	1		5.22			15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
	T O T A L			9085		10.44	12.18	15.39				

I_T = 9085/($\sqrt{3}$ X 230) + (25%6) = 24.31 AMPS
I_T = 24.31 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 5.5mm² THWN COPPER WIRE
1 - 3.5mm² THWN COPPER WIRE
IN 20MMØ RSC

FOR THE MAIN SERVICE PROTECTION:
USE: 30AT, 60AF, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: DP3: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	AMPERE RATING BC	AMPERE RATING CA	AMPERE RATING ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING FIXTURE	18	230	900	1	3.91				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
2	LIGHTING FIXTURE	12	230	800	1	3.47				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
3	CONVENIENCE OUTLET	6	230	1200	1			5.22		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
4	CONVENIENCE OUTLET	6	230	1200	1			5.22		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
5	CONVENIENCE OUTLET	6	230	1200	1		5.22			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
6	CONVENIENCE OUTLET	6	230	1200	1		5.22			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
7	5 TR ACCU	1	230	7570	1				19	40AT, 2P	3-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
8	5 TR ACCU	1	230	7570	1				19	40AT, 2P	3-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
9	5 TR ACCU	1	230	7570	1				19	40AT, 2P	3-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
10	5 TR ACCU	1	230	7570	1				19	40AT, 2P	3-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
11	BASKETBALL COURT LIGHTING	8	230	800	1	3.47				15AT, 2P	2-3.5mm² THHN WIRE 1-2.5mm² THHN WIRE	15mmØ EMT
12												
	T O T A L			37580		10.86	10.44	10.44	76			

I_T =7300/($\sqrt{3}$ X 230) + (25%x19) + 76 = 99.07 AMPS
I_T =99.07 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 30mm² THWN COPPER WIRE
1 - 8.0mm² THWN COPPER WIRE
IN 32MMØ RSC

FOR THE MAIN SERVICE PROTECTION:
USE: 100AT, 100AF, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: MDP: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	AMPERE RATING BC	AMPERE RATING CA	AMPERE RATING ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	DISTRIBUTION PANELBOARD -1	230	52700	3	71.19	62.68	71.19		200AT, 3P	3-80mm² THWN WIRE 1-22mm² THWN WIRE	50mmØ RSC
2	DISTRIBUTION PANELBOARD -2	230	9085	3	10.44	12.18	15.39		30AT, 3P	3-5.5mm² THWN WIRE 1-3.5mm² THWN WIRE	20mmØ RSC
3	DISTRIBUTION PANELBOARD -3	230	37580	3	10.86	10.44	10.44	76	100AT, 3P	3-30mm² THWN WIRE 1-8.0mm² THWN WIRE	32mmØ RSC
	T O T A L		103185		92.49	85.3	97.02	76			

I_T =69085/($\sqrt{3}$ X 230) + (25%x19) + 76 = 254 AMPS
I_T = 254 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 150mm² THWN COPPER WIRE
1 - 30mm² THWN COPPER WIRE
IN 65MMØ RSC

FOR THE MAIN SERVICE PROTECTION:
USE: 300AT, 400AF, 3-POLE, 240V MCCB

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (UPGRADING OF ELECTRICAL SYSTEM)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
SCHEDULE OF LOADS - OFFICE 1

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-2

SCHEDULE OF LOADS: LP: 240VOLTS, 1-PHASE, 2WIRE + G (TYPICAL FOR 8 STUDIO TYPE CONTAINER VAN)

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING	3	230	300	1	1.3	15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
2	CONVENIENCE OUTLET	8	230	1440	1	6.26	20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
3	1HP WINDOW TYPE ACU	1	230	1725	1	6	20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
T O T A L				3465		13.56			

I_T = 3465/230 + (25%x6) = 16.57 AMPS
I_T = 16.57 AMPS

USE: 2 - 5.5mm² THWN COPPER WIRE
1 - 3.5mm² THWN COPPER WIRE
IN 15MMØ EMT

FOR THE MAIN SERVICE PROTECTION:
USE: 30AT, 60AF, 2-POLE, 10 KAIC, 240V MCCB

SCHEDULE OF LOADS: DP4: 240VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	STUDIO TYPE CONTAINER VAN	-	230	3465	1	13.56				30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
2	STUDIO TYPE CONTAINER VAN	-	230	3465	1	13.56				30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
3	STUDIO TYPE CONTAINER VAN	-	230	3465	1			13.56		30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
4	STUDIO TYPE CONTAINER VAN	-	230	3465	1			13.56		30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
5	STUDIO TYPE CONTAINER VAN	-	230	3465	1		13.56			30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
6	STUDIO TYPE CONTAINER VAN	-	230	3465	1		13.56			30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
7	STUDIO TYPE CONTAINER VAN	-	230	3465	1	13.56				30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
8	LIGHTING (TOILET & SHOWER ROOM) EXHAUST FAN	12 4	230	880	1	3.82				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
9	STUDIO TYPE CONTAINER VAN	-	230	3465	1			13.56		30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
10	LIGHTING (TOILET & SHOWER ROOM) EXHAUST FAN	12 4	230	880	1			3.82		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
11	LIGHTING	16	230	800	1		3.48			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
12	SPARE	-	230	3000	1		13.04			30AT, 2P		
T O T A L				33280		44.5	43.64	44.5				

I_T =33280/($\sqrt{3}$ X 230) + (25%x6) = 85 AMPS
I_T = 85 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 30mm² THWN COPPER WIRE
1 - 8.0mm² THWN COPPER WIRE
IN 32MMØ RSC

FOR THE MAIN SERVICE PROTECTION:
USE: 100AT, 100AF, 3-POLE, 25KAIC, 240V MCCB

SCHEDULE OF LOADS: DP5: 240VOLTS, 3-PHASE, 3WIRE + G (COMMON MESS HALL AND STUDY AREA)

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING FIXTURE	22	230	1100	1	4.78				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
2	CONVENIENCE OUTLET	6	230	1080	1	4.7				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
3	LIGHTING FIXTURE	26	230	1300	1			5.65		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
4	CONVENIENCE OUTLET	6	230	1080	1			4.7		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
5	CONVENIENCE OUTLET	6	230	1080	1		4.7			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
6	CONVENIENCE OUTLET	8	230	1440	1		6.26			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	15mmØ EMT
7	5 TR ACCU	1	230	7570	3				19	40AT, 3P	3-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
8	5 TR ACCU	1	230	7570	3				19	40AT, 3P	3-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
9	5 TR ACCU	1	230	7570	3				19	40AT, 3P	3-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
10	5 TR ACCU	1	230	7570	3				19	40AT, 3P	3-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	15mmØ EMT
T O T A L				37360		9.48	10.96	10.35	76			

I_T =7080/($\sqrt{3}$ X 230) + (25%x19) + 76 = 98.52 AMPS
I_T =98.52 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 30mm² THWN COPPER WIRE
1 - 8.0mm² THWN COPPER WIRE
IN 32MMØ RSC

FOR THE MAIN SERVICE PROTECTION:
USE: 125AT, 250AF, 3-POLE, 25KAIC, 240V MCCB

SCHEDULE OF LOADS: MDP1: 240VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	DISTRIBUTION PANELBOARD -4	230	33280	3	44.5	43.64	44.5		100AT, 3P	3-30mm² THWN WIRE 1-8.0mm² THWN WIRE	32mmØ RSC
2	DISTRIBUTION PANELBOARD -5	230	37360	3	9.48	10.96	10.35	76	125AT, 3P	3-30mm² THWN WIRE 1-8.0mm² THWN WIRE	32mmØ RSC
T O T A L			70640		53.98	54.6	54.85	76			

I_T = 40360/($\sqrt{3}$ X 230) + (25%x19) + 76 = 182.06 AMPS
I_T = 182.06 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 100mm² THHN/THWN-2 COPPER WIRE
1 - 30mm² THHN/THWN-2 COPPER WIRE
IN 63MMØ IMC/75MMØ PVC

FOR THE MAIN SERVICE PROTECTION:
USE: 225AT, 250AF, 3-POLE, 50KAIC, 240V MCCB

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NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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DRAWN BY:	JPCJR
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Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES
(UPGRADING OF ELECTRICAL SYSTEM)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
SCHEDULE OF LOADS - OFFICE 2

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-3

SCHEDULE OF LOADS: LP: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING EMERGENCY LIGHT	35 1	230	591	1	2.57				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
2	CONVENIENCE OUTLET	7	230	1260	1	5.48				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
3	LIGHTING, EXHAUST FAN EMERGENCY LIGHT	33.3 2	230	862	1			3.75		15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
4	CONVENIENCE OUTLET	6	230	1080	1			4.7		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
5	BATHROOM OUTLET(GFCI PROTECTED)	1	230	1000	1		4.35			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
6	BATHROOM OUTLET(GFCI PROTECTED)	1	230	1000	1		4.35			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
7	SMALL APPLIANCES	1	230	1500	1	6.52				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
8	SPACE	-	-	-	-	-				-	-	-
9	REFRIGERATOR	1	230	1000	1			4.35		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
10	SPACE	-	-	-	-			-		-	-	-
11	LAUNDRY OUTLET(GFCI PROTECTED)	1	230	2000	1		8.7			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
12	SPACE	-	-	-	-		-			-	-	-
	T O T A L			10293		14.57	17.4	12.8				

I_T =(17.4 x 1.73) + (25% x 4.35) = 31.19 AMPS
I_T = 31.19 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 5.5mm² THWN COPPER WIRE
1 - 3.5mm² THWN COPPER WIRE
IN 20MMØ RSC

FOR THE MAIN SERVICE PROTECTION:
USE: 40AT, 60AF, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: PP: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	4.5 KW WATER HEATER(SINGLE-POINT)	1	230	5625	1	24.46				32AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
2	0.8 TR WALL MOUNTED ACU	1	230	1840	1	8				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
3	4.5 KW WATER HEATER(SINGLE-POINT)	1	230	5625	1			24.46		32AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
4	0.8 TR WALL MOUNTED ACU	1	230	1840	1			8		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
5	5 KW RANGE	1	230	6250	1		27.17			40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
6	WATER PUMP	1	230	1840	1		8			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
7	2 TR WALL MOUNTED ACU	1	230	3680	1	16				40AT, 2P	2-8.0mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
8	SPARE	1	230	1500	1	6.52				20AT, 2P	-	20mmØ PVC
9	2 TR WALL MOUNTED ACU	1	230	3000	1			16		40AT, 2P	2-8.0mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
10	SPARE	1	230	1500	1			6.52		20AT, 2P	-	20mmØ PVC
11	SPARE	1	230	3680	1		13.04			20AT, 2P	-	20mmØ PVC
12	SPARE	1	230	1500	1		6.52			20AT, 2P	-	20mmØ PVC
	T O T A L			37880		54.98	54.73	54.98				

I_T = (54.98 x 1.73) + (25%x16) = 99.12 AMPS
I_T = 99.12 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 38mm² THWN COPPER WIRE
1 - 8.0mm² THWN COPPER WIRE
IN 32MMØ RSC

FOR THE MAIN SERVICE PROTECTION:
USE: 125AT, 125AF, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: DP1: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	VOLTS	AMPERE RATING A	B	C	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LP	230	14.57	17.4	12.8	—	40AT, 60AF, 3P	3-5.5mm² THWN COPPER WIRE 1-3.5mm² THWN COPPER WIRE	20mmØ RIGID STEEL CONDUIT
2	PP	230	54.98	54.73	54.98	—	125AT, 125AF, 3P	3-38mm² THWN COPPER WIRE 1-8.0mm² THWN COPPER WIRE	32mmØ RIGID STEEL CONDUIT
	T O T A L		69.55	72.13	67.78				

I_T = (72.13 x 1.73) + (25% x 16)
= 128.78 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 60mm² THHN/THWN-2 COPPER WIRE
1 - 22mm² THHN/THWN-2 COPPER WIRE
IN 63MMØ IMC/PVC

FOR THE MAIN SERVICE PROTECTION:
USE: 175AT, 225AF, 3-POLE, 240V MCCB

ANS CHIEF'S QUARTER
1 / E 3 SCHEDULE OF LOADS
SCALE: NTS

SCHEDULE OF LOADS: LP: 230VOLTS, 3-PHASE, 3WIRE + G - REPLACEMENT OF PANELBOARD FROM SINGLE PHASE TO THREE PHASE

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING EMERGENCY LIGHT	25 1	230	605	1	2.63				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
2	CONVENIENCE OUTLET	8	230	1440	1	6.26				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
3	LIGHTING EMERGENCY LIGHT	19 1	230	295	1			1.28		15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
4	CONVENIENCE OUTLET	7	230	1260	1			5.48		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
5	LIGHTING, EMERGENCY LIGHT EXHAUST FAN	26.2 2	230	763	1		3.32			15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
6	CONVENIENCE OUTLET	6	230	1080	1		4.7			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
7	LIGHTING EMERGENCY LIGHT	29 1	230	660	1	2.87				15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
8	SMALL APPLIANCES	2	230	2000	1	8.7				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
9	SMALL APPLIANCES	2	230	2000	1			8.7		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
10	BATHROOM OUTLET(GFCI PROTECTED)	1	230	1000	1			4.35		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
11	LAUNDRY OUTLET(GFCI PROTECTED)	1	230	2000	1		8.7			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
12	LIGHTING EXHAUST FAN	15 1	230	230	1		1			15AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
	T O T A L			13333		20.46	17.72	19.81				

I_T = (20.46 x 1.73) + (25% x 4.35) = 36.48 AMPS
I_T = 36.48 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 8.0mm² THHN/THWN-2 COPPER WIRE
1 - 5.5mm² THHN/THWN-2 COPPER WIRE
IN 25MMØ IMC

FOR THE MAIN SERVICE PROTECTION:
USE: 60AT, 100AF, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: PP: 230VOLTS, 3-PHASE, 3WIRE + G - REPLACEMENT OF PANELBOARD FROM SINGLE PHASE TO THREE PHASE

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	6.0 KW WATER HEATER(MULTI-POINT)	1	230	7500	1	32.6				40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
2	0.8 TR WALL MOUNTED ACU	1	230	1840	1	8				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
3	4.5 KW WATER HEATER(SINGLE-POINT)	1	230	5625	1			24.46		30AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
4	0.8 TR WALL MOUNTED ACU	1	230	1840	1			8		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
5	5 KW RANGE	1	230	6250	1		27.17			40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
6	0.8 TR WALL MOUNTED ACU	1	230	1840	1		8			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
7	WATER PUMP	1	230	1840	1	8				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
8	SPARE	-	230	1500	1	6.52				20AT, 2P	-	-
9	2 TR WALL MOUNTED ACU	1	230	3680	1			16		40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
10	SPARE	-	230	1500	1			6.52		20AT, 2P	-	-
11	2 TR WALL MOUNTED ACU	1	230	3680	1		16			40AT, 2P	2-5.5mm² THHN WIRE 1-3.5mm² THHN WIRE	20mmØ PVC
12	REFRIGERATOR	1	230	1000	1		4.35			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
	T O T A L			38095		55.12	55.52	54.98				

I_T = (55.52 x 1.73) + (25%x16) = 100.05 AMPS
I_T = 100.05 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 38mm² THHN/THWN-2 COPPER WIRE
1 - 8.0mm² THHN/THWN-2 COPPER WIRE
IN 32MMØ IMC

FOR THE MAIN SERVICE PROTECTION:
USE: 160AT, 250AF, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: DP: 230VOLTS, 3-PHASE, 3WIRE + G (PROPOSED)

CKT. No.	LOAD DESCRIPTION	VOLTS	AMPERE RATING A	B	C	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LP	230	20.46	17.72	19.81	—	60AT, 100AF, 3P	3-8.0mm² + 1-5.5mm² THHN/ THWN-2 COPPER WIRE	25mmØ IMC
2	PP	230	55.12	55.52	54.98	—	160AT, 250AF, 3P	3-38mm² + 1-8.0mm² THHN/ THWN-2 COPPER WIRE	32mmØ IMC
3	DP1	230	69.55	72.13	67.78	—	175AT, 250AF, 3P	3-60mm² + 1-22mm² THHN/ THWN-2 COPPER WIRE	63mmØ IMC/PVC
	T O T A L		145.13	145.37	142.57				

I_T = (145.37 x 1.73) + (25% x 16)
= 255.49 AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 200mm² THHN/THWN-2 COPPER WIRE
1 - 50mm² THHN/THWN-2 COPPER WIRE
IN 90MMØ IMC/110MMØ PVC

FOR THE MAIN SERVICE PROTECTION:
USE: 350AT, 400AF, 3-POLE, 240V MCCB

GUEST HOUSE
2 / E 3 SCHEDULE OF LOADS
SCALE: NTS

REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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DRAWN BY:	JPCJR
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RECOMMENDED APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (UPGRADING OF ELECTRICAL SYSTEM)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
SCHEDULE OF LOADS - CAAP QUARTERS 1 AND 2

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-4

SCHEDULE OF LOADS: PP1: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUIT
1	2.5 HP ACU (FCU-B / ACCU-B)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
2	2.5 HP ACU (FCU-C / ACCU-C)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
3	2.5 HP ACU (FCU-F / ACCU-F)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
4	2.5 HP ACU (FCU-H / ACCU-H)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
5	2.5 HP ACU (FCU-I / ACCU-I)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
6	2.5 HP ACU (FCU-J / ACCU-J)	1	230	3335	1		14.50			30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
7	2.5 HP ACU (FCU-K / ACCU-K)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
8	2.5 HP ACU (FCU-P / ACCU-P)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
9	2.5 HP ACU (FCU-Q / ACCU-Q)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
10	2.5 HP ACU (FCU-R / ACCU-R)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
11	2.5 HP ACU (FCU-N / ACCU-N)	1	230	3335	1		14.50			30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
12	2.5 HP ACU (FCU-V / ACCU-V)	1	230	3335	1		14.50			30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
T O T A L						58.00	58.00	58.00				

$I_T = (58 \times 1.73) + 25\%(14.50)$
$I_T = 104.08$ A

FOR THE FEEDER CONDUCTOR:
USE: 3 - 38mm² THW COPPER WIRE
1 - 14mm² THW COPPER WIRE (G)
IN 40MMØ RSC

FOR THE FEEDER PROTECTION:
USE: 125AT, 225AF, 3-POLE, 230V, 25KAIC MCCB

SCHEDULE OF LOADS: PP2: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUIT
1	2.5 HP ACU (FCU-A / ACCU-A)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
2	2.5 HP ACU (FCU-D / ACCU-D)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
3	2.5 HP ACU (FCU-G / ACCU-G)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
4	2.5 HP ACU (FCU-L / ACCU-L)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
5	2.5 HP ACU (FCU-M / ACCU-M)	1	230	3335	1		14.50			30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
6	2.5 HP ACU (FCU-S / ACCU-S)	1	230	3335	1		14.50			30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
7	2.5 HP ACU (FCU-T / ACCU-T)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
8	WINDOW TYPE AIRCON	1	230	3335	1	10.00				20AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
9	2.5 HP ACU (FCU-O / ACCU-O)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
10	WINDOW TYPE AIRCON	1	230	3335	1			10.00		20AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
11	2.5 HP ACU (FCU-U / ACCU-U)	1	230	3335	1		14.50			30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
12	SMALL APPLIANCE OUTLET	1	230	1500	1		6.52			20AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
T O T A L						53.50	50.02	53.50				

$I_T = (53.50 \times 1.73) + 25\%(14.50)$
$I_T = 96.29$ A

FOR THE FEEDER CONDUCTOR:
USE: 3 - 38mm² THW COPPER WIRE
1 - 14mm² THW COPPER WIRE (G)
IN 40MMØ RSC

FOR THE FEEDER PROTECTION:
USE: 125AT, 225AF, 3-POLE, 230V, 25KAIC MCCB

SCHEDULE OF LOADS: LPP: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUIT
1	LIGHTING OUTLET	28	230	1580	1	6.87				20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
2	LIGHTING OUTLET	20	230	1200	1	5.22				20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
3	LIGHTING OUTLET	26	230	1300	1			5.65		20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
4	LIGHTING OUTLET	26	230	1300	1			5.65		20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
5	LIGHTING OUTLET	27	230	1620	1		7.04			20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
6	LIGHTING OUTLET	27	230	1620	1		7.04			20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
7	LIGHTING OUTLET EXHAUST FAN	18 4	230	1300	1	5.65				20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
8	CONVENIENCE OUTLET	8	230	1440	1	6.26				20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
9	CONVENIENCE OUTLET	5	230	900	1			3.91		20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
10	HAND DRYER OUTLET	1	230	1500	1			6.52		20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
11	HAND DRYER OUTLET	1	230	1500	1		6.52			20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
12	S P A R E	1	230	1000	1		4.35			20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
T O T A L						24.00	24.95	21.73				

$I_T = (24.95 \times 1.73) + (0.25 \times 6.52) = 44.79$ A
$I_T = 44.79$ A

FOR THE FEEDER CONDUCTOR:
USE: 3 - 30mm² THW COPPER WIRE
1 - 8.0mm² THW COPPER WIRE (G)
IN 32MMØ RSC

FOR THE FEEDER PROTECTION:
USE: 100AT, 125AF, 3-POLE, 230V, 25KAIC MCCB

SCHEDULE OF LOADS: EP: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUIT
1	2.5 HP ACU (FCU-E / ACCU-E)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
2	2.5 HP ACU (FCU-W / ACCU-W)	1	230	3335	1	14.50				30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
3	2.5 HP ACU (FCU-X / ACCU-X)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
4	2.5 HP ACU (FCU-Y / ACCU-Y)	1	230	3335	1			14.50		30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
5	2.5 HP ACU (FCU-Z / ACCU-Z)	1	230	3335	1		14.50			30AT, 2P	2 - 5.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	20mmØ EMT CONDUIT
6	LIGHTING OUTLET EXHAUST FAN	26 2	230	1620	1		7.04			20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
7	CONVENIENCE OUTLET	9	230	1620	1	7.04				20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
8	S P A C E											
9	CONVENIENCE OUTLET	8	230	1440	1			6.26		20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
10	S P A C E											
11	LIGHTING OUTLET	29	230	1660	1		7.22			20AT, 2P	2 - 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² THHN COPPER WIRE (G)	15mmØ EMT CONDUIT
12	S P A C E											
T O T A L						36.04	28.76	35.26				

$I_T = (36.04 \times 1.73) + 25\%(14.50)$
$I_T = 65.97$ A

FOR THE FEEDER CONDUCTOR:
USE: 3 - 30mm² THW COPPER WIRE
1 - 8.0mm² THW COPPER WIRE (G)
IN 40MMØ RSC

FOR THE FEEDER PROTECTION:
USE: 100AT, 125AF, 3-POLE, 230V, 25KAIC MCCB

SCHEDULE OF LOADS: MDP: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	VOLTS	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	PANEL LPP	230	24.00	24.95	21.73		100AT, 125AF, 3P	3 - 30mm² THHN COPPER WIRE + 1 - 8.0mm² THHN COPPER WIRE (G)	32mmØ RIGID STEEL CONDUIT
2	PANEL PP1	230	58.00	58.00	58.00		125AT, 225AF, 3P	3 - 38mm² THHN COPPER WIRE + 1 - 14mm² THHN COPPER WIRE (G)	40mmØ RIGID STEEL CONDUIT
3	PANEL PP2	230	53.50	50.02	53.50		125AT, 225AF, 3P	3 - 38mm² THHN COPPER WIRE + 1 - 14mm² THHN COPPER WIRE (G)	40mmØ RIGID STEEL CONDUIT
4	EP	230	36.04	28.76	35.26		100AT, 125AF, 3P	3 - 30mm² THHN COPPER WIRE + 1 - 8.0mm² THHN COPPER WIRE (G)	32mmØ RIGID STEEL CONDUIT
T O T A L			171.54	161.73	168.49				

COMPUTATION:
$I_T = (171.54 \times 1.73) + 25\%(14.50)$
$I_T = 300.39$ A

FOR THE SERVICE ENTRANCE CONDUCTOR:
USE: 2 SETS OF 3 - 100mm² THHN/THWN-2 COPPER WIRE
1 - 30mm² THHN/THWN-2 COPPER WIRE (G)
IN 75MMØ PVC/ 63MMØ IMC

FOR THE MAIN SERVICE PROTECTION:
USE: 400AT, 600AF, 3-POLE, 230V, 36KAIC MCCB

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INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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DRAWN BY:	JPCJR
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REVIEWED BY:
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NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (UPGRADING OF ELECTRICAL SYSTEM)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
SCHEDULE OF LOADS - TRANSMITTER BUILDING

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-5

SCHEDULE OF LOADS: PDP-1: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	5KW HF TX NO.1	-	230	6250	1	9.06	9.06	9.06		50AT, 3P	3-8.0mm² THHN WIRE 1-5.5mm² THHN WIRE	Cable Tray
2	5KW HF TX NO.2	-	230	6250	1	9.06	9.06	9.06		50AT, 3P	3-8.0mm² THHN WIRE 1-5.5mm² THHN WIRE	Cable Tray
3	SPARE	-	230	9200	1	13.33	13.33	13.33		50AT, 3P	3-8.0mm² THHN WIRE 1-5.5mm² THHN WIRE	Cable Tray
4	OUTLET FOR WORK BENCH	-	230	6250	1	9.06	9.06	9.06		50AT, 3P	3-8.0mm² THHN WIRE 1-5.5mm² THHN WIRE	Cable Tray
5	100 W HF TX	-	230	125	1	0.54				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
6	philcom link	-	230	1500	1	6.52				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
T O T A L				29575		47.97	40.51	40.51				

$I_T = 29575/(\sqrt{3} \times 230) = 66.83$ AMPS
$I_T = 66.83$ AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 60mm² THHN COPPER WIRE
1 - 22mm² THHN COPPER WIRE
IN CABLE TRAY

FOR THE MAIN SERVICE PROTECTION:
USE: 200AT, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: PDP-2: 230VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	ACU NO.1	-	230	5520	1	8	8	8		50AT, 3P	3-8.0mm² THHN WIRE 1-5.5mm² THHN WIRE	25mmØ PVC
2	ACU NO.2	-	230	5520	1	8	8	8		50AT, 3P	3-8.0mm² THHN WIRE 1-5.5mm² THHN WIRE	25mmØ PVC
3	HF ANT. (CONICAL) OB LIGHT	-	230	1500	1			6.52		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
4	HF ANT. (CONICAL) OB LIGHT	-	230	1500	1			6.52		20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
5	HF ANT. (CONICAL) OB LIGHT	-	230	1500	1		6.52			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
6	OUTLET FOR HF CONTROL RACK	-	230	1500	1		6.52			20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
7	VSAT THALES	-	230	1500	1	6.52				20AT, 2P	2-3.5mm² THHN WIRE 1-2.0mm² THHN WIRE	20mmØ PVC
8	SPACE											
T O T A L				18540		22.52	29.04	29.04				

$I_T = 18540/(\sqrt{3} \times 230) + (25\% \times 8) = 48.54$ AMPS
$I_T = 48.54$AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 30mm² THHN COPPER WIRE
1 - 8.0mm² THHN COPPER WIRE
IN CABLE TRAY

FOR THE MAIN SERVICE PROTECTION:
USE: 125AT, 3-POLE, 240V MCCB

SCHEDULE OF LOADS: LPP: 240VOLTS, 3-PHASE, 3WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING AB	BC	CA	ABC	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING OUTLET	24	230	1000	1	4.35				20AT, 2P	2-3.5mm² + 1-3.5mm² THHN/THWN-2 CU WIRE	15mmØ EMT
2	CONVENIENCE OUTLET	8	230	1440	1	6.26				20AT, 2P	2-3.5mm² + 1-3.5mm² THHN/THWN-2 CU WIRE	15mmØ EMT
3	ACU	-	230	2300	1			10		20AT, 2P	2-3.5mm² + 1-3.5mm² THHN/THWN-2 CU WIRE	15mmØ EMT
4	SPACE											
5	ACU	-	230	2300	1		10			20AT, 2P	2-3.5mm² + 1-3.5mm² THHN/THWN-2 CU WIRE	15mmØ EMT
6	SPACE											
T O T A L				7040		10.61	10	10				

$I_T = 7040/(\sqrt{3} \times 230) + (25\% \times 10) = 20.19$ AMPS
$I_T = 20.19$ AMPS

FOR THE SERVICE FEEDER:
USE: 3 - 8.0mm² THHN/THWN-2 COPPER WIRE
1 - 5.5mm² THHN/THWN-2 COPPER WIRE
IN 32MMØ IMC

FOR THE MAIN SERVICE PROTECTION:
USE: 50AT, 100AF, 3-POLE, 10KAIC, 240V MCCB

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TAGUIG CITY

SHEET CONTENTS:
SCHEDULE OF LOADS - TRANSMITTER BUILDING VIA UPS POWERHOUSE

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-6

SCHEDULE OF LOADS: LVSG: 230VOLTS, 3-PHASE, 3WIRE + G (AT POWERHOUSE)

I_T = 393608/($\sqrt{3}$ X 230) + (25%x19) + 277.5 = 1270.29 AMPS
I_T = 1270.29 AMPS

FOR THE SERVICE FEEDER:
USE: 5 SETS 3 - 200mm² THHN/THWN-2 COPPER WIRE
1 - 50mm² THHN/THWN-2 COPPER WIRE
IN 110MMØ PVC

FOR THE MAIN SERVICE PROTECTION:
USE: 1600AT, 1600AF, 3-POLE, 240V MCCB

CKT. No.	LOAD DESCRIPTION	VOLTS	VA PER CIRCUIT	PHASE	AMPERE RATING				CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
					AB	BC	CA	ABC			
1	MDP (CAOCSP-1)	230	103185	3	92.49	85.3	97.02	76	300AT, 3P	3-150mm² THWN WIRE 1-30mm² THWN WIRE	EXISTING
2	MDP1 (CAOCSP-2)	230	70640	3	53.98	54.6	54.85	76	225AT, 3P	3-100mm² + 30mm² THHN/THWN-2 WIRE	63mmØ IMC/ 75mmØ PVC
3	MDP (TRANSMITTER BUILDING)	230	118362	3	171.54	161.73	168.49		400AT, 3P	2 x 3-100mm² + 30mm² THHN/THWN-2 WIRE	63mmØ IMC/ 75mmØ PVC
4	LPP (TECH CEN)	230	47770	3	82.83	65.67	59.32		200AT, 3P	3-80mm² + 22mm² THHN/THWN-2 WIRE	63mmØ IMC/ 63mmØ PVC
5	AVR (TECH CEN)	230	50000	3				125.5	300AT, 3P	2 x 3-100mm² THWN WIRE 1-30mm² THWN WIRE	EXISTING
6	DP (GUEST HOUSE)	230	99601	3	145.13	145.37	142.57		350AT, 3P	3-200mm² +50mm² THHN/THWN-2 WIRE	90mmØ IMC/ 110mmØ PVC
7	SPACE										
8	SPACE										
T O T A L			489558		**545.97**	**512.67**	**522.25**	**277.5**			

TOTAL CONNECTED LOAD: 489.558 KVA
EXPECTED CONNECTED LOAD @ 0.7 DEMAND FACTOR: 342.69 KVA

TRANSFORMER LOADING = (KVA x DF) / 3
TRANSFORMER LOADING = (342.69) / 3 =114.23 KVA

TRANSFORMER SIZE: 3 - 167 KVA, 1Ø, 240/120V, 60 Hz
GENERATOR SET: 300 kW/ 375kVA, 3Ø, 240/120V, 60Hz
OR GENERATOR SET: 2 - 175kW/219 KVA, 3Ø, 240/120V, 60Hz IN PARALLEL OPERATION

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NAIA ROAD, 1300 PASAY CITY

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
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DRAWN BY:	JPCJR
CHECKED BY:	

REVIEWED BY:
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Department Manager III, AED-ADMS

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ADG II, ADMS

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

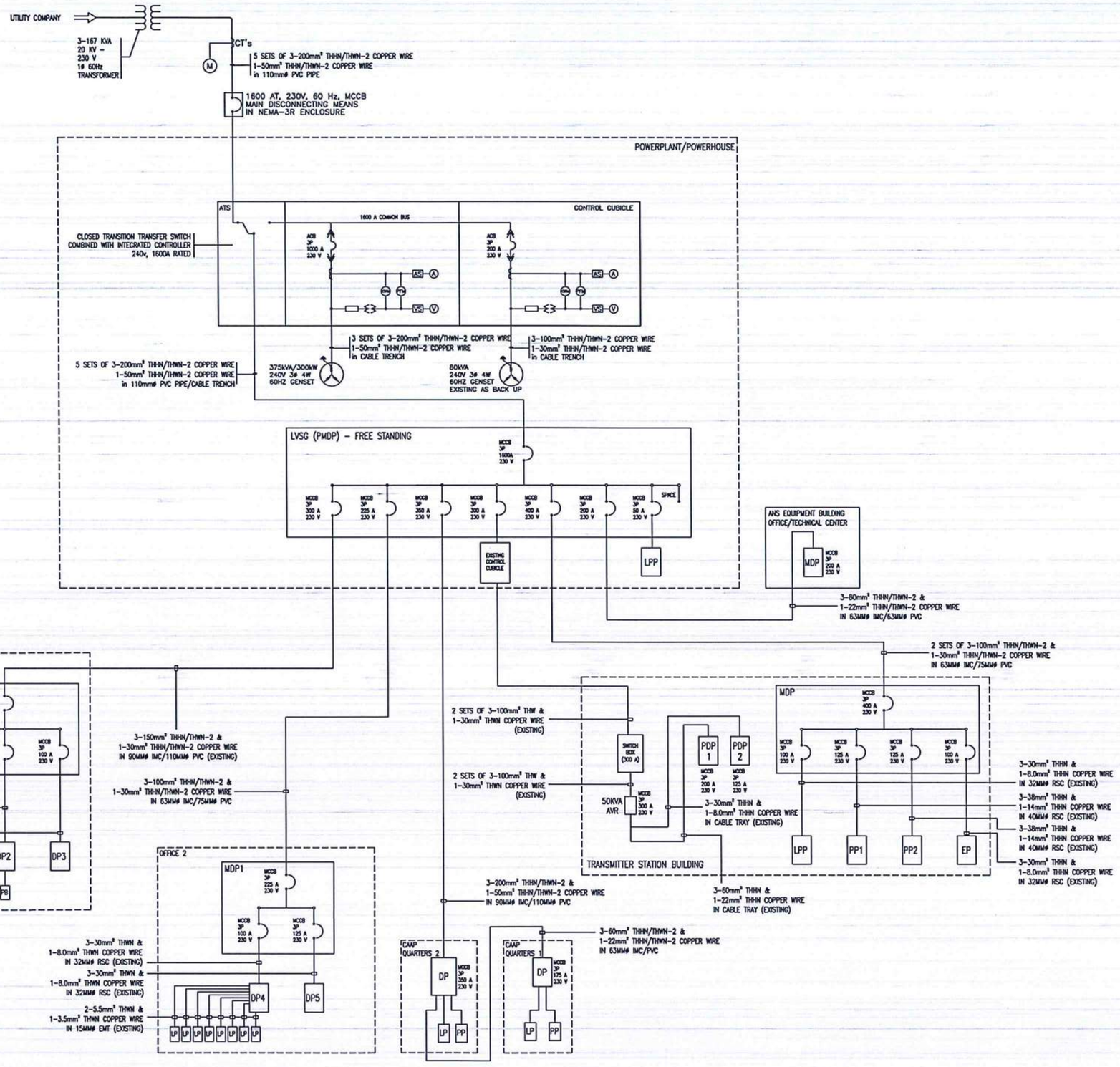
NOTES/REVISIONS:

PROJECT:
REHABILITATION OF MANILA TRANSMITTER FACILITIES (UPGRADING OF ELECTRICAL SYSTEM)

LOCATION:
MANILA TRANSMITTER STATION OFFICE
TAGUIG CITY

SHEET CONTENTS:
SCHEDULE OF LOADS - LVSG AT POWERHOUSE

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-7



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SHEET CONTENTS:

POWER LINE SINGLE LINE DIAGRAM

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-8

M. ROXAS AVENUE

SEGUNDO STREET

DEL PILAR STREET

GERONIMO STREET

1 2 3 4 5 6 7 8

3–100mm² THHN/THWN–2 &
1–30mm² THHN/THWN–2 COPPER WIRE
IN 63MMø IMC/75MMø PVC

3–100mm² THHN/THWN–2 &
1–30mm² THHN/THWN–2 COPPER WIRE
IN 63MMø IMC/75MMø PVC

5 sets of 3–200mm² THHN/THWN–2 &
1–50mm² THHN/THWN–2 COPPER WIRE
IN 110MMø PVC

3–200mm² THHN/THWN–2 &
1–50mm² THHN/THWN–2 COPPER WIRE
IN 90MMø IMC/110MMø PVC – GUEST HOUSE

2 sets of 3–100mm² THHN/THWN–2 &
1–30mm² THHN/THWN–2 COPPER WIRE
IN 63MMø IMC/75MMø PVC – TRANSMITTER BUILDING

3–200mm² THHN/THWN–2 &
1–50mm² THHN/THWN–2 COPPER WIRE
IN 90MMø IMC/110MMø PVC

PARADE GROUND

SERVICE ENTRANCE PEDESTAL

MDP

EMH

GUARD HOUSE

STAGE

BIGWALL

28.00

19.00

57.00

54.00

38.00

34.00

21.00

ATS

POWER PLANT

LVSG

LPP

18.00

29.00

13.00

CAAP QUARTER 1

CAAP QUARTERS 2

DP1

DP

2 sets of 3–100mm² THHN/THWN–2 &
1–30mm² THHN/THWN–2 COPPER WIRE
IN 63MMø IMC/75MMø PVC

TRANSMITTER STATION BUILDING

MDP

AVR

ANS EQUIPMENT BUILDING OFFICE/ TECHNICAL CENTER

3–80mm² THHN/THWN–2 &
1–22mm² THHN/THWN–2 COPPER WIRE
IN 63MMø IMC/63MMø PVC

3–60mm² THHN/THWN–2 &
1–22mm² THHN/THWN–2 COPPER WIRE
IN 63MMø IMC/PVC

3–200mm² THHN/THWN–2 &
1–50mm² THHN/THWN–2 COPPER WIRE
IN 90MMø IMC/110MMø PVC

5 sets of 3–200mm² THHN/THWN–2 &
1–50mm² THHN/THWN–2 COPPER WIRE
IN 110MMø PVC

3–200mm² THHN/THWN–2 &
1–50mm² THHN/THWN–2 COPPER WIRE
IN 90MMø IMC/110MMø PVC – GUEST HOUSE

2 sets of 3–100mm² THHN/THWN–2 &
1–30mm² THHN/THWN–2 COPPER WIRE
IN 63MMø IMC/75MMø PVC – TRANSMITTER BUILDING

3–100mm² THHN/THWN–2 &
1–30mm² THHN/THWN–2 COPPER WIRE
IN 63MMø IMC/75MMø PVC – CAOCSP II

5 sets of 3–200mm² THHN/THWN–2 &
1–50mm² THHN/THWN–2 COPPER WIRE
IN 110MMø PVC

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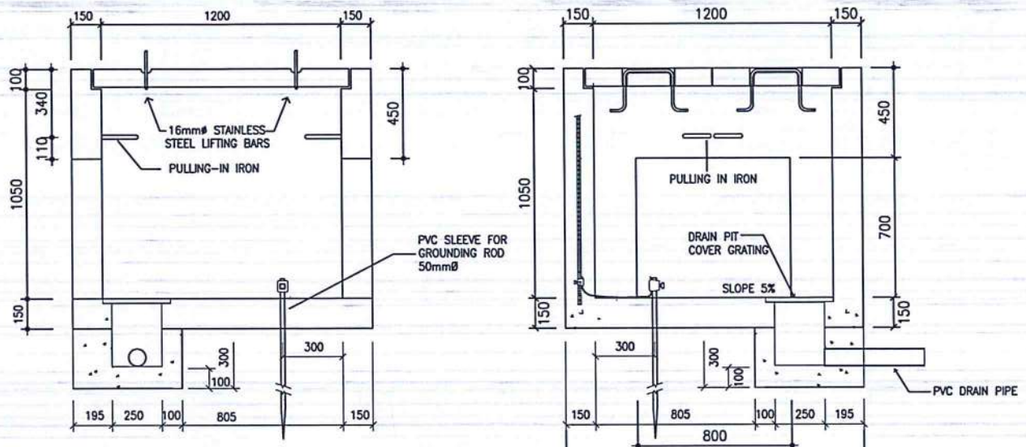
SHEET CONTENTS:

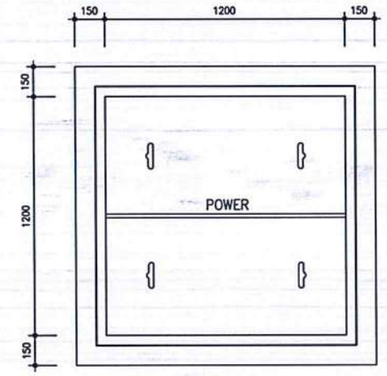
EXTERIOR POWER DISTRIBUTION PLAN

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-9

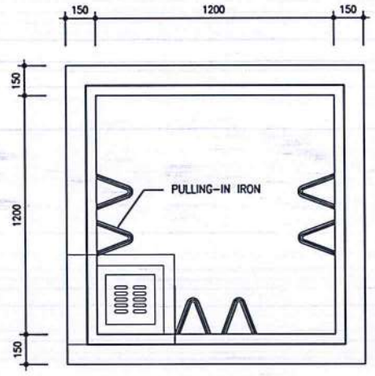


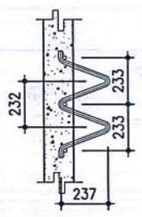
SECTION

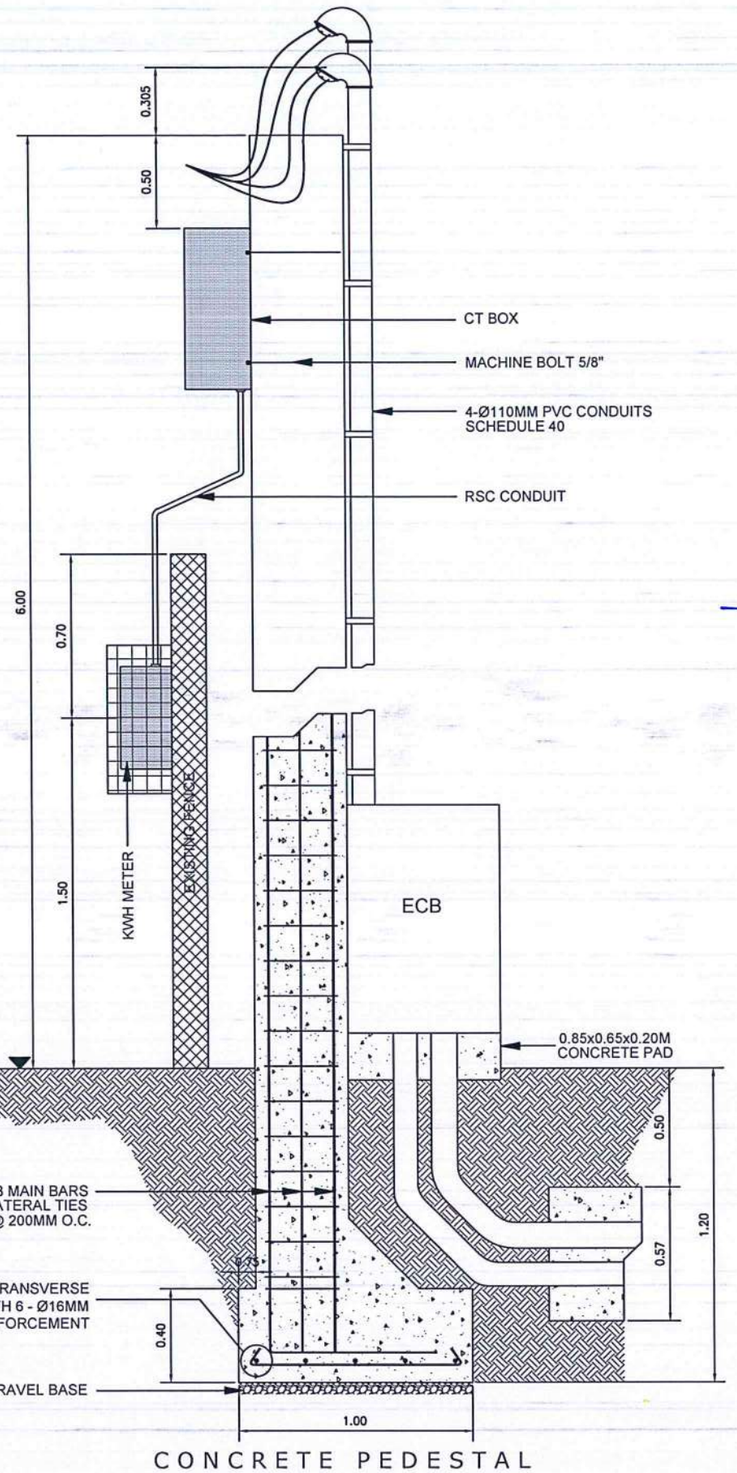
SECTION



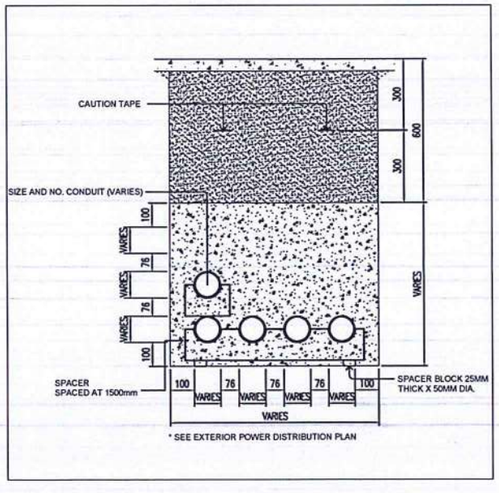
PLAN

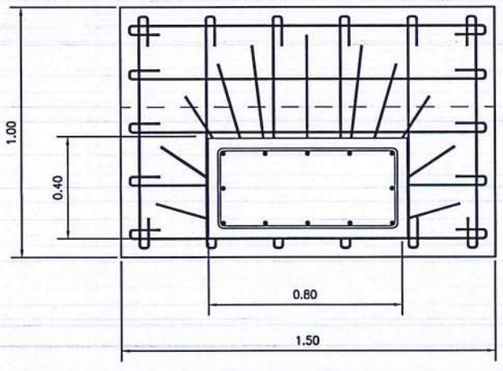






CONCRETE PEDESTAL ELEVATION VIEW





PEDESTAL FOOTING PLAN VIEW

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SHEET CONTENTS:

MAN HOLE AND CONCRETE PEDESTAL DETAILS

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-10

CONSTRUCTION NOTES (CIVIL WORKS):

A. GENERAL

1. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
2. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN. CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC. TO BE EMBEDED IN CONCRETE.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORINGS AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.

B: CONCRETE AND REINFORCEMENT

1. ALL MATERIALS WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).
2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	MAX. SLUMP
CURBS AND SLAB ON GRADE EXCEPT FOUND.	3000 PSI	1 in. (25 mm)	4 in. (100 mm)
FOUNDATION & RETAINING WALL	3000 PSI	3/4 in. (19 mm)	4 in. (100 mm)
ALL OTHERS INCLUDING BEAMS, SUSPENDED SLABS AND COLUMNS	3000 PSI	3/4 in. (19 mm)	5 in. (125 mm)

3. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 40 FOR ø12 & SMALLER REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 FOR ø16 & BIGGER
4. IN GENERAL, THE LATEST EDITION OF ACI-315, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.
5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.

SUSPENDED SLABS	3/4 in. (19mm)
SLAB ON GRADE	1 1/2 in. (38mm)
WALLS ABOVE GRADE	1 in. (25mm)
BEAM STIRRUPS AND COLUMN TIES	1 1/2 in. (38mm)
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	2 in. (50mm)
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	3 in (75mm)

6. SPLICES SHALL BE SECURELY WIRED AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPLICE AND ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.
7. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, TOOLS, EQUIPMENTS AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
10. STRIPPING OF FORMS AND SHORES
    REFER TO TECHNICAL SPECIFICATIONS

E: STEEL NOTES:

1. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO STD. REQUIREMENTS OF AISC FOR ASTM A36 STEEL
2. ALL COLD FORMED STEEL SHAPES SHALL CONFORM TO STD. REQUIREMENTS OF AISI FOR JIS G3141 SPCC
3. ALL WELDS SHALL CONFORM WITH AWS STD.
4. CONNECTORS
   BOLTS ASTM A307 OR ASTM A325 AS SPECIFIED
   WELDS E60XX ELECTRODE

F: FOUNDATION

1. FOUNDATION IS DESIGNED BASED ON THE ASSUMPTION OF 120 KPA SOIL BEARING CAPACITY FOR FOOTING NOT LESS THAN 1.5M.
2. FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.
4. THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY TO DEVISE & IMPLEMENT EXCAVATION PROCEDURES THAT WILL ENSURE SAFETY OF LIFE & PROPERTY.

CONSTRUCTION NOTES (ELECTRICAL WORKS):

1. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH THE RULES AND REGULATIONS OF THE UTILITY COMPANIES CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY QUALIFIED AND LICENSED ELECTRICAL ENGINEER.
3. UNLESS OTHERWISE SPECIFIED IN THE PLAN; METHODS OF WIRING SHALL BE AS FOLLOWS:

   3.1 EMBEDDED IN CONCRETE
   - USE PVC SCH.40 CONDUIT EXCEPT COMMUNICATION AND DATA LINES

   3.2 NOT EMBEDDED IN CONCRETE
   - USE EMT CONDUITS WITH SIZE NOT LARGER THAN 25mm DIAMETER
   - USE IMC WITH SIZE LARGER THAN 25mm DIAMETER

   3.3 MINIMUM SIZE OF WIRES AND CONDUITS TO BE USED SHALL BE NO. 3.5 SQ. MM. THHN/THWN-2 AND 15MM NOMINAL DIAMETER RESPECTIVELY "USE UL LISTED".
4. INSTALLATION OF ALL WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, IMPROPERLY SET WORK OR FINISH AS DETERMINED BY THE ENGINEER/ARCHITECT SHALL BE REMOVED AND REPLACED AT NO EXTRA COST.
5. ALL MATERIALS SHOULD BE NEW AND ACCEPTABLE TO THE ARCHITECT/ENGINEER, UNLESS OTHERWISE SPECIFIED TO RE-USE OTHER MATERIALS.
6. ALL MATERIALS SHALL BE SUBJECT FOR APPROVAL BY THE ENGINEER.
7. THE USE OF ANY MATERIALS NOT SPECIFIED IN THE SPECIFICATION MAY BE ALLOWED PROVIDED, HOWEVER THAT SUCH SUBSTITUTED MATERIALS ARE PROVEN EQUAL AND/OR SUPERIOR IN QUALITY & SHALL HAVE PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
8. APPROPRIATE TOOLS AND TESTING EQUIPMENT SHALL BE USED THROUGH OUT ELECTRICAL INSTALLATION WORKS PRIOR TO TURN-OVER OF THE PROJECT.
9. SUBMIT AN ACCURATE AS-BUILT PLANS.
10. ALL ACCESSORIES, SPLICING DEVICES, TERMINATIONS AND OTHER APPURTENANCES FOR THE ENTIRE INSTALLATIONS SHALL BE OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSE INTENDED.
11. ALL ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE REQUIREMENT OF THE PHILIPPINE ELECTRICAL CODE.
12. JUNCTION BOXES, PULL BOXES, WIRE GUTTER GAUGE NO. 16 (MINIMUM) SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER REQUIRED AND NECESSARY AND SHALL BE INSTALLED AT CONVENIENT SPACE AND LOCATION TO FACILITATE WIRE PULLING EVEN IF THESE ITEMS ARE NOT SHOWN IN THE PLAN.
13. PANEL BOARD SHALL BE EQUIPPED WITH GROUND AND NEUTRAL KIT TERMINALS WITH NUMBER OF TERMINALS EQUAL TO THE NUMBER OF BRANCH CIRCUITS.
14. VERIFYING AND TRACING OF THE EXISTING ELECTRICAL SYSTEM OF THE BUILDING SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
15. LAYOUT DIMENSION SHOWN IN DRAWINGS ARE APPROXIMATE ONLY AND INTENDED TO SERVE AS AN INSTALLATION GUIDE. DIMENSION MUST BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITION. WHENEVER FIELD CONDITION OR EXIGENCIES OF CONSTRUCTION MAKE DEPARTURE FROM THE LAYOUT SHOWN, DETAIL OF SUCH DEPARTURE FROM PLAN AND REASON THEREOF SHALL BE SUBMITTED TO THE OWNER OR HIS DULY AUTHORIZED REPRESENTATIVE AND NO DEPARTURE SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE AUTHORITIES CONCERNED.
16. SECURING OF NECESSARY ELECTRICAL PERMITS, CEI AND OTHER NECESSARY REQUIREMENTS SHALL BE PART OF THE GENERAL CONTRACTOR, INCLUDING COORDINATION/APPLICATION WITH THE UTILITY COMPANY FOR POWER INTERRUPTION. ALSO, THE GENERAL CONTRACTOR IS RESPONSIBLE IN PROVIDING SIGNED AND SEALED ELECTRICAL PLANS AND OTHER NECESSARY DOCUMENTS NEEDED FOR THE SERVICE APPLICATION TO THE UTILITY COMPANY (MERALCO) CONCERNED.

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SHEET CONTENTS:
GENERAL NOTES

DRAWING SCALE:	SHEET NO:
AS SHOWN	E-11